

为什么初一数学的计算非常重要？

- 1) 初一第一次月考：80-90 分（满分 100 分）与计算相关；
- 2) 初一第一次期中期末：75-85 分（满分 100 分）与计算相关；

为什么在初一练习计算？

- 1) 初一数学的考察皆与计算相关
- 2) 初一课程压力小，学生有充足的时间练习计算
- 3) 初一属初中打基础的阶段，初一的计算能力不过关，直接影响学生初二初三的学习效果和考试成绩

1. $\frac{6}{5} \times (-\frac{1}{3} - \frac{1}{2}) \div \frac{5}{4}$

2. $\frac{5}{7} \div (-2\frac{2}{5}) - \frac{5}{7} \times \frac{5}{12} - \frac{5}{3} \div 4$

3. $0.8 \times \frac{2}{11} + 4.8 \times (-\frac{2}{7}) - 2.2 \div \frac{3}{7} + 0.8 \times \frac{9}{11}$

4. $(-\frac{1}{6} - \frac{3}{20} + \frac{4}{5} - \frac{7}{12}) \times (-15 \times 4)$



5. $(-\frac{7}{18}) \times \frac{3}{7} \times (-2.4)$

6. $2 \div (-\frac{3}{7}) \times \frac{4}{7} \div (-5\frac{1}{7})$

7. $[15\frac{1}{2} - (1\frac{1}{4} \times \frac{3}{5} + 3\frac{1}{2})] \div (-1\frac{1}{8})$

8. $\frac{1}{5} \times (-5) \div (-\frac{1}{5}) \times 5$

9. $-(\frac{1}{3} - \frac{1}{21} + \frac{3}{14} - \frac{2}{7}) \div (-\frac{1}{42})$

10. $-13 \times \frac{2}{3} - 0.34 \times \frac{2}{7} + \frac{1}{3} \times (-13) - \frac{5}{7} \times 0.34$

11. $(-13) \times (-134) \times \frac{1}{13} \times (-\frac{1}{67})$

12. $(-4\frac{7}{8}) - (-5\frac{1}{2}) + (-4\frac{1}{4}) - 3\frac{1}{8}$

13. $(-16 - 50 + 3) \div (-2)$

14. $(-0.5) - (-3\frac{1}{4}) + 6.75 - 5\frac{1}{2}$

15. $178 - 87.21 + 43\frac{2}{21} + 53\frac{19}{21} - 12.79$

16. $(-6) \times (-4) + (-32) \div (-8) - 3$

17. $-\frac{2}{7} - (-\frac{1}{2}) + |-1\frac{1}{2}|$

18. $(-9) \times (-4) + (-60) \div 12$

19. $[(-\frac{9}{14}) - 1\frac{5}{7} + \frac{8}{21}] \div (-\frac{1}{42})$

20. $-|-3| \div 10 - (-15) \times \frac{1}{3}$

21. $-1\frac{3}{5} \times (\frac{7}{32} - \frac{5}{16}) \div 2\frac{1}{2}$

22. $(2\frac{1}{3} - 3\frac{1}{2} + 1\frac{17}{18}) \div (-1\frac{1}{6}) \times (-7)$

23. $-\frac{3}{4} \times (8 - 2\frac{1}{3} - 0.04)$





24. $-1^5 - [(-0.4) \times (-2.5)]^5$

25. $(-1)^{25} - (1 - 0.5) \times \frac{1}{3}$

26. $|-5 - 7| + |-5 - (-7)| + |(-243) + (-246)|$

27. $3 - (-2) \times (-1) - 8 \div (-\frac{1}{2})^2 \times |-3 + 1|$

28. $(-27\frac{9}{11}) \div 9 - (\frac{1}{2} + \frac{2}{3} - \frac{3}{4} - \frac{11}{12}) \times (-24)$

29. $\left| -3\frac{8}{11} \right| - \left| -\frac{27}{10} \right| + (-\frac{9}{11}) - (-3\frac{4}{5})$

30. $(+0.125) + \left(3\frac{1}{4} \right) + \left(-3\frac{1}{8} \right) + \left(11\frac{2}{3} \right) + (-0.25)$

31. $211 \times (-455) + 365 \times 455 - 211 \times 545 + 545 \times 365$

32. $-1^{10} - (\frac{13}{14} - \frac{11}{12}) \times [9 - (-3)^2] + \frac{1}{2} \div 3$

$$33. \quad (-1)^8 - \left(\frac{1}{2} - \frac{2}{3}\right) \div \left(-\frac{1}{6}\right) \times [-2 - (-3)^2] - \left|\frac{1}{8} - 0.5^2\right|$$

$$34. \quad \left[1\frac{2}{13} - \left(\frac{5}{8} - \frac{1}{6} + \frac{7}{12}\right) \times 24\right] \div (-5)$$

$$35. \quad -117 \times \left(\frac{1}{32} - 0.125\right) \div (-1.2) \times \left(-1\frac{3}{13}\right)$$

$$36. \quad 42 \times \left(-\frac{2}{3}\right) + \left(-\frac{3}{4}\right) \div (-0.25)$$

$$37. \quad \left[30 - \left(\frac{7}{9} + \frac{5}{6} - \frac{11}{12}\right) \times (-36)\right] \div (-5)$$

$$38. \quad \left(+1\frac{2}{7}\right) \div \left(-\frac{3}{4}\right) \div \left(-\frac{15}{14}\right) \times \left(-\frac{5}{8}\right)$$

$$39. \quad \left(-1\frac{3}{4}\right) \div \left(-1\frac{1}{2}\right) - \left(\frac{3}{4} + \frac{1}{2}\right) \div \left(-\frac{5}{4}\right)$$

$$40. \quad 3 \times (-2)^3 - 4 \times (-3)^2 + 8$$

$$41. \quad (-1)^{10} \times 2^2 + (-2)^3 \div 2$$





42. $-2^2 - (-2)^2 - 2^3 + |(-2)^3 - 2|$

43. $-1^4 - \frac{1}{6} \times [2 - (-3)^2]$

44. $(-10)^2 + [(-4)^2 - (3 + 3^2) \times 2]$

45. $(-1)^4 - (1 - 0.5) \times \frac{1}{3} \times [2 - (-2)^2]$

46. $(-2)^{2003} + (-2)^{2002}$

47. $(-0.25)^{2005} \times 4^{2004}$

48. $-0.5^2 + \frac{1}{4} - |-2^2 - 4| - (-1\frac{1}{2})^3 \times \frac{4}{9}$

49. $(-2)^3 - 3 \times [(-4)^2 + 2] - (-3)^2 \div (-2)$

50. $-2^3 \div (-4) \times (-7 + 5)$

51. $(-1)^{10} \times 2^2 + (-2)^3 \div 2$

52. $8 - 2^3 \div (-4) \times (-7 + 5)$

53. $(-3)^2 \times [-\frac{2}{3} + (-\frac{5}{9})] - (-6)^2 \div 4$

54. $-1 - [-2 - (1 - 0.5 \times 4^3)]$

55. $-2\frac{1}{5} \times \frac{1}{3} - (+3\frac{4}{5}) \div 3 + (+22\frac{1}{2}) \div 3 - 2\frac{1}{2} \times \frac{1}{3}$

56. $9 + 5 \times (-3) - (-2)^2 \div 4$

57. $(-5)^3 \times [2 - (-6)] - 300 \div 5$

58. $-1\frac{2}{3} \times (1 - \frac{2}{3}) \div 1\frac{1}{9}$

59. $[12 - 4 \times (3 - 10)] \div 4$

60. $2 \times (-3)^3 - 4 \times (-3) + 15$

61. $-1^4 - \frac{1}{6} \times [2 - (-3)^2]$





62. $3+50\div 2^2\times(-\frac{1}{5})-1$

63. $-2^4\div\frac{16}{9}\times(-\frac{3}{4})^2$

64. $-0.25^2\div\left(-\frac{1}{2}\right)^3+\left(\frac{1}{8}-\frac{1}{2}\right)\times(-1)^{100}$

65.
$$\frac{-2^2-(-1)^{100}-12\div(-\frac{1}{2})^2}{1+|-1-3^2\times 2|}$$

66. $-8-3\times(-1)^3-(-4)^4$

67. $36\times(\frac{1}{2}-\frac{1}{3})^2$

68. $-2^4\div\frac{4}{9}\times(-\frac{3}{2})^2$

69. $\left[1\frac{1}{24}-\left(\frac{3}{8}+\frac{1}{6}-\frac{3}{4}\right)\times\frac{3}{4}\right]\div 5$

70. $(\frac{5}{12}+\frac{2}{3}-\frac{3}{4})\times(-12)$

71. $16 \div (-2)^3 - (-\frac{1}{8}) \times (-4)$

72. $(-\frac{1}{2} - \frac{1}{3}) \div (-\frac{1}{6}) + (-2)^2 \times (-14)$

73. $-3 - [-5 + (1 - 0.2 \times \frac{3}{5}) \div (-2)]$

74. $\frac{1}{1 \times 2} + \frac{1}{2 \times 3} + \cdots + \frac{1}{99 \times 100}$

75. $-1\frac{2}{3} \times (1 - \frac{2}{3}) \div 1\frac{1}{9}$

76. $[12 - 4 \times (3 - 10)] \div (4 - 9)$

77. $-5 + (-2)^4 - 2^4 \div (-2)^3$

78. $24 + 16 \div (-2)^3 \div (-10)$

79. $(5 + 3 \div \frac{1}{3}) \div (-2) + (-3)^2$

80. $4 - (-2)^3 - 33 \div (-1)^3$





81. $-\frac{3}{4} \times [-33 \times (-\frac{2}{3})^2 - 23]$

82. $-9 \div 3 + (\frac{1}{2} - \frac{2}{3}) \times 12 + 32$

83. $(-\frac{5}{23}) \times (-34) - \frac{5}{23} \times 17 - \frac{5}{23} \times (-6)$

84. $1\frac{1}{2} \times \frac{5}{7} - (-\frac{5}{7}) \times 2\frac{1}{2} + (-\frac{1}{2}) \times \frac{5}{7}$

85. $(-2)^2 \times (-1)^3 - 3 \times [-1 - (-2)]$

86. $2^3 - 3^2 - (-4) \times (-9) \times 0$

87. $4 - 5 \times (-\frac{1}{2})^3$

88. $-8 - 3 \times (-1)^3 - (-1)^4$

89. $-2^3 \div \frac{4}{9} \times (-\frac{2}{3})^2$

90. $-1 - \frac{1}{6} \times [12 - (-3)^2]$

91. $(-7) \times (-5) - 90 \div (-15)$

92. $42 \times (-\frac{2}{3}) + (-\frac{3}{4}) \div (-0.25)$

93. $(\frac{11}{12} - \frac{7}{6} + \frac{3}{4} - \frac{13}{24}) \times (-48)$

94. $(-370) \times (-\frac{1}{4}) + 0.25 \times 24.5 - (-5\frac{1}{2}) \times 25\%$

95. $3\frac{3}{4} \times (-1\frac{3}{5})$

96. $(-2) \times (-5) \times (+\frac{5}{6}) \times (-30)$

97. $(-\frac{5}{12}) \times \frac{4}{15} \times (-1.5) \times 1\frac{1}{3}$

98. $(-8 + 1\frac{1}{3} - 0.04) \times (-\frac{3}{4})$

99. $(-8) \times (-8\frac{3}{7}) + (-7) \times (-8\frac{3}{7}) - 15 \times 8\frac{3}{7}$





100. $9 \times \left(-99\frac{17}{18}\right)$

101. $\left(-\frac{1}{4}\right) \times (-7.98)$

102. $(-4) \times 5 \times (-0.25) \times (-8)$

103. $\left(-\frac{1}{4}\right) \times 0.5 \times \left(-70\frac{3}{5}\right) \times 4$

104. $-3.2 \times \left[-3 \times \left(-\frac{7}{9}\right) \times \left(-\frac{2}{21}\right) - 2 \times \left(-\frac{1}{3}\right)\right]$

105. $49\frac{7}{8} \times (-4)$

106. $\frac{1}{5} \times \left(-75\frac{5}{6}\right)$

107. $\left(-9\frac{24}{25}\right) \times (-125)$

108. $(-2006) \times \frac{2004}{2005}$

$$109. \left(-\frac{2}{3} + \frac{3}{4} + \frac{1}{12}\right) \times (-24)$$

$$110. \left(-\frac{2}{3}\right) \times \left(-6\frac{2}{3}\right) \times \left(-\frac{1}{2}\right) \times \left(-1\frac{1}{5}\right)$$

$$111. \left(-1\frac{1}{7}\right) \times \left(-\frac{7}{8} + 1\frac{3}{4} - \frac{7}{12}\right)$$

$$112. \left(\frac{1}{3} - \frac{1}{2} \times \frac{7}{12}\right) \times 3\frac{3}{7}$$

$$113. \left(-\frac{1}{2}\right) \times \frac{5}{14} - \left(-\frac{5}{14}\right) \times 2\frac{1}{2} + 1\frac{1}{2} \times \frac{5}{14}$$

$$114. \frac{4}{27} \times \frac{5}{9} + 4 \times \frac{5}{27} + \frac{5}{9} \times \left(-\frac{5}{3}\right)$$

$$115. \left(+\frac{7}{16}\right) \div (-1.75)$$

$$116. \left(-\frac{3}{5}\right) \div \left(-3\frac{1}{2}\right) \div \left(-1\frac{2}{7}\right)$$

$$117. (-81) \div 2\frac{1}{4} \times \frac{4}{9} \div (-15)$$





118. $(-10) \div (-8) \times (-4)$

119. $(-1) \div \frac{1}{7} \times (-7)$

120. $-4.5 \times \frac{2}{5} \div \frac{9}{8}$

121. $\left(-3\frac{1}{2}\right) \div \left(-1\frac{2}{3}\right) \div \left(-1\frac{1}{4}\right)$

122. $\left(+5\frac{1}{2}\right) \div \left(-4\frac{4}{25}\right) \times \left(-\frac{13}{15}\right) \div \left(-3\frac{1}{18}\right)$

123. $4 \times (-15) \times \left(-\frac{1}{6} - \frac{3}{20} + \frac{4}{5} - \frac{7}{12}\right)$

124. $\frac{1}{3} \times \frac{1}{5} \times \frac{1}{7} + \left(-\frac{1}{3}\right) \times \left(-\frac{1}{5}\right) \times \left(-\frac{1}{7}\right) + \left(-\frac{1}{3}\right) \times \left(-\frac{1}{5}\right) \times \frac{1}{7} + \frac{1}{3} \times \left(-\frac{1}{5}\right) \times \frac{1}{7}$

125. $-(-8)^2 \times (-1)^5$

126. $-\frac{1}{12} - \left(+\frac{1}{8}\right)$

127. $(-6) \times (-3)^4$

128. $(-\frac{12}{5}) - (-3.25)$

129. $-13.5 \times (-0.7) \div (-5\frac{3}{5})$

130. $(\frac{1}{6} - \frac{1}{7} + \frac{2}{3}) \div (-\frac{1}{42})$

131. $\frac{1}{4} \div (-0.1) - (-\frac{2}{3}) \div (-\frac{3}{4})$

132. $-216 \div 2^2 \times (-\frac{1}{2})^2$

133. $(-1\frac{3}{7}) \times 1\frac{4}{7} \div (-1 - \frac{4}{7}) + 1\frac{4}{7}$

134. $(-11\frac{2}{3}) \div 0.5 - (-21\frac{1}{2}) \div 0.5 - (+10\frac{1}{3}) \div 0.5$

135. $1.8 - (-1.8 + \frac{2}{3})$





136. $-4\frac{1}{5} + 2\frac{1}{4}$

137. $-48 \times (1 - \frac{1}{12} + \frac{3}{4})$

138. $0.5 \times 2^2 - (-3)^2$

139. $\frac{1}{12} \div (-\frac{1}{3} + \frac{3}{4})$

140. $(-2)^3 \times (-\frac{3}{8}) - (-2)^2 \div 2\frac{2}{3} \times (-\frac{2}{3})^2$

141. $-1^4 - \left[\frac{2}{17} - (-\frac{7}{27} + \frac{2}{17}) \right] - (\frac{2}{3})^3$

142. $(1\frac{3}{4} - \frac{7}{8} - \frac{7}{12}) \div (-\frac{7}{8})$

143. $(-7)^2 \div \frac{4}{13} - (-30) \times 3\frac{1}{4} + 3.25$

144. $-86 + 86 \times 35.2 - 8.6 \times 42$

145. $-2009 \times \frac{2007}{2008}$

146. $-99\frac{1}{9} \times 27$

147. $(-\frac{2}{3})^7 \times (1.5)^6$

148. $(-\frac{1}{3})^{2010} \times 3^{2011}$

149. $(-7)^{2011} + 14 \times 7^{2010} - (-49) \times (-7)^{2009}$

150. $4.73 - \left[2\frac{2}{3} - (2.63 - 1\frac{1}{3}) \right]$

151. $(-3\frac{4}{7}) \div (-1\frac{2}{3}) \times (-\frac{1}{15})$

152. $(-81 - 27 + 63 - 18) \div (-9)$

153. $\left| -2\frac{1}{2} \right| \times \left| -\frac{3}{5} \right| - \left| +\frac{1}{2} \right| \div \left| -\frac{2}{3} \right| - (-3)$





$$154. -8 \times [-7 + \left(1 - \frac{2}{3} \times 0.6\right) \div (-3)]$$

$$155. -\frac{2}{15} + (-0.8)$$

$$156. 6\frac{1}{12} + \left(-3\frac{5}{18}\right)$$

$$157. 1.5 + \{(-1.8) + [0.8 + (-0.9)]\}$$

$$158. -3\frac{1}{3} + [2\frac{1}{2} + \left(-3\frac{2}{3}\right) + 5\frac{1}{2} + \left(-7\frac{3}{4}\right)]$$

$$159. -15\frac{2}{3} + [13\frac{2}{3} - \left|-4\frac{2}{15}\right| + \left(-4\frac{1}{5}\right)]$$

$$160. 0.7 \times 1\frac{4}{9} + 2\frac{3}{4} \times (-15) + 0.7 \times \frac{5}{9} + \frac{1}{4} \times (-15)$$

$$161. \left(1\frac{4}{5} - 2\frac{5}{6} - \frac{8}{15}\right) \times 60$$

$$162. (-42) \div 3\frac{1}{2} - \frac{5}{9} \div \left(-\frac{15}{18}\right)$$

$$163. -81 \div 2 \frac{1}{4} \div (-16) \times \frac{4}{9}$$

$$164. (+0.1) + (+8\frac{1}{3}) + 11\frac{2}{3} + |-4.4|$$

$$165. (-36.32) + 35\frac{41}{50} + \left| -9\frac{8}{25} \right| + \left| -36\frac{8}{25} \right|$$

$$166. 19\frac{5}{13} + (-20\frac{3}{17}) + (-302.5) + (-151\frac{14}{17}) + \left(-119\frac{5}{13} \right) + \left(-197\frac{1}{2} \right)$$

$$167. (-3\frac{5}{37}) + [-(+2\frac{11}{148}) + (+5.175) + \left(-3\frac{3}{37} \right) + 6.325]$$

$$168. -4\frac{5}{6} - (+3\frac{3}{5}) - (-3\frac{1}{6}) - (+1\frac{2}{5})$$

$$169. (+1\frac{3}{4}) - \frac{5}{6} - 1\frac{1}{6} + \frac{1}{2}$$

$$170. 1\frac{2}{3} - \left(+1\frac{2}{5} \right) - \left(-\frac{4}{3} \right) - (-0.6) - 3\frac{4}{5}$$

$$171. -\frac{7}{5} - 1\frac{1}{5} - 2\frac{3}{5} + 3\frac{1}{5} + 2 - \frac{4}{5} + \frac{4}{5}$$





$$172. -32\frac{1}{3} - \left[5\frac{1}{4} + \left(-3\frac{1}{7} \right) - 5.25 - 2\frac{6}{7} \right]$$

$$173. (+3\frac{2}{5}) + (-2\frac{7}{8}) - (+3\frac{5}{12}) - \left(-5\frac{3}{5} \right) + (-1\frac{1}{8}) - 5\frac{5}{12}$$

$$174. \left(-\frac{3}{4} \right) \times \left(-1\frac{1}{2} \right) \times \left(-\frac{4}{9} \right)$$

$$175. -\frac{5}{6} \times 0.25 \times (-4) \times 9$$

$$176. \left(-\frac{5}{6} \right) \div \left(-3\frac{1}{3} \right)$$

$$177. \left(-3\frac{4}{7} \right) \div \left(-1\frac{2}{3} \right) \div \left(-1\frac{1}{14} \right)$$

$$178. \left(-\frac{1}{2} \right) \times \left(-\frac{2}{3} \right) \times \left(-1\frac{1}{4} \right) \times \left(-1\frac{1}{3} \right) \times \left(-1\frac{4}{5} \right)$$

$$179. -3.8 \times 2.4 \times 799.6 \times \left(-\frac{11}{7} \right) \times (3^3 - 3 \times 9) \times 88\frac{2}{3}$$

$$180. -8 - [-3.6 - (-0.2) \times (-0.4) \times (-1)]$$

$$181. 3 \times \left[5^2 - 6 + (-8)^2 - 2 \times (-2)^3 \times \frac{1}{4} \right]$$

$$182. 5.72 - (+15.8)$$

$$183. -0.47 - \left(-3\frac{47}{50}\right)$$

$$184. \left(-3\frac{1}{2}\right) - \left(+5\frac{1}{4}\right)$$

$$185. -\left(+\frac{1}{6}\right) - \left(-\frac{1}{4}\right) - \left(+\frac{1}{3}\right) - \left(-\frac{1}{2}\right)$$

$$186. -3^2 \times 2 + (-2)^3 \times 3 - 48 \div (-2) + (-2)^6$$

$$187. \left(\left|-3\frac{1}{3}\right| - \left|2\frac{1}{2}\right|\right) \div \left[-4^2 \times (-0.5)^3\right] \times \left(-1\frac{1}{5}\right)^2$$

$$188. \left(-\frac{5}{6}\right) \div (-3) \times \left(-1\frac{4}{5}\right) \times (-2)$$

$$189. \frac{8}{81} \times 6\frac{3}{4} - \frac{2}{7} \div \left(-1\frac{5}{7}\right) + (-0.5)^2$$





$$190. \left| 1\frac{1}{3} - 1\frac{1}{2} \right| - |2 \times (-2)^3| + |-3|^3$$

$$191. \left(-\frac{5}{8}\right) \times (-4)^2 - 0.25 \times (-5) \times (-4)^3$$

$$192. -(-3)^2 \times 2$$

$$193. \frac{1}{2} + \left(-\frac{2}{3}\right) + \frac{4}{5} + \left(-\frac{1}{2}\right) + \left(-\frac{1}{3}\right)$$

$$194. (-1.5) + 4\frac{1}{4} + 2.75 + \left(-5\frac{1}{2}\right)$$

$$195. -8 \times (-5) - 63$$

$$196. 4 - 5 \times \left(-\frac{1}{2}\right)^3$$

$$197. \left(-\frac{2}{5}\right) + \left(-\frac{5}{6}\right) - (-4.9) - 0.6$$

$$198. (-10)^2 \div 5 \times \left(-\frac{2}{5}\right)$$

199. $(-5)^3 \times (-\frac{3}{5})^2$

200. $5 \times (-6) - (-4)^2 \div (-8)$

201. $2\frac{1}{4} \times (-\frac{6}{7}) \div (\frac{1}{2} - 2)$

202. $(-\frac{6}{13}) + (-\frac{7}{13}) - 5$

203. $-\frac{2}{7} - (-\frac{1}{2}) + \left| -1\frac{1}{2} \right|$

204. $(\frac{7}{8} - \frac{3}{4}) \div (-\frac{7}{8})$

205. $(-50) \times (\frac{2}{5} + \frac{1}{10})$

206. $(-16 - 50 + 3\frac{2}{5}) \div (-2)$

207. $(-6) \times 8 - (-2)^3 - (-4)^2 \times 5$





$$208. \left(-\frac{1}{2}\right)^2 + \frac{1}{2} \times \left(\frac{2}{3} - \left|\frac{2}{3} - 2\right|\right)$$

$$209. -1^{1997} - (1 - 0.5) \times \frac{1}{3}$$

$$210. -\frac{3}{2} \times [-3^2 \times \left(-\frac{2}{3}\right)^2 - 2]$$

$$211. \left(-\frac{3}{4}\right)^2 + \left(-\frac{2}{3} + 1\right) \times 0$$

$$212. -1^4 - (1 - 0.5) \times \frac{1}{3} \times [2 - (-3)^2]$$

$$213. (-81) \div (+2.25) \times \left(-\frac{4}{9}\right) \div 16$$

$$214. -5^2 - [-4 + (1 - 0.2 \times \frac{1}{5}) \div (-2)]$$

$$215. (-5) \times \left(-3\frac{6}{7}\right) + (-7) \times \left(-3\frac{6}{7}\right) + 12 \times \left(-3\frac{6}{7}\right)$$

$$216. \left(-\frac{5}{8}\right) \times (-4)^2 - 0.25 \times (-5) \times (-4)^3$$

$$217. (-3)^2 - (1\frac{1}{2})^3 \times \frac{2}{9} - 6 \div \left| -\frac{2}{3} \right|$$

$$218. (-2)^3 \times (-\frac{2}{3})^2 \times (-\frac{3}{2})^3$$

$$219. (-\frac{1}{2})^{13} \times 3^8 \times (-2)^{12} \times (-\frac{1}{3})^7$$

$$220. -7^2 + 2 \times (-3)^2 + (-6) \div (-\frac{1}{3})^2$$

$$221. (-2)^4 \div (-8) - (-\frac{1}{2})^3 \times (-2^2)$$

$$222. 8 - 2^3 \div (-4)^3 - \frac{1}{8}$$

$$223. 100 \div (-2)^2 - (-2) \div (-\frac{2}{3})$$

$$224. (-3)^2 \div (-4)^2$$

$$225. -2^2 \times (-\frac{1}{2})^2 \div (-0.8)^3$$





$$226. -3^2 \times \left(-\frac{1}{3}\right)^2 - (-2)^3 \div \left(-\frac{1}{2}\right)^2$$

$$227. \left(-\frac{3}{4}\right)^2 \times \left(-\frac{2}{3} + 1\right) \times 0$$

$$228. 6 + 2^2 \times \left(-\frac{1}{5}\right)$$

$$229. -10 + 8 \div (-2)^2 - 4 \times 3$$

$$230. -1^5 - [(-0.4) \times (-2.5)]^5$$

$$231. (-1)^{25} - (1 - 0.5) \times \frac{1}{3}$$

$$232. (-14) + 26 + (-14) + (-16) + 8$$

$$233. (-5.5) + (-3.2) - (-2.5) - 4.8$$

$$234. (-8) \times (-25) \times (-0.02)$$

$$235. \left(\frac{1}{2} - \frac{5}{9} + \frac{5}{6} - \frac{7}{12}\right) \times (-72)$$

236. $(-2) \div (\frac{1}{3} - \frac{1}{2})$

237. $\frac{1}{2} + (-4)^2 \times (-\frac{1}{2})$

238. $0.6 \times \frac{5}{12} + 5 \div (3\frac{1}{2} - 1\frac{5}{8}) - \frac{5 - 20 \div 4}{\frac{1}{2} \div 0.5}$

239. $1\frac{1}{2} \times \left[3 \times (-\frac{2}{3})^2 - 1 \right] - \frac{1}{3} \times [(-2)^2 - (-4.5 + 3)]$

240. $(-\frac{3}{2})^3 \times (-\frac{4}{3})^2 \div (-\frac{1}{2}) \times (-1)^4 - 3^2 + |-2|^2$

241. $\left\{ \left[\frac{15}{4} \div (-\frac{1}{4}) + \frac{2}{5} \times \frac{25}{4} \right] \div (-\frac{5}{3}) - 16 \right\} \times (-1)^{11}$

242. $-20 + (-15) - (-28) - 17$

243. $-65 + 23 - 15 + 7$

244. $\frac{2}{3} - \frac{1}{8} - (-\frac{1}{3}) + (-1\frac{3}{8})$





245. $(-5.54) + (-3.2) - (-2.5) - 4.8$

246. $9 + 5 \times (-3) - (-2)^2 \div 4$

247. $(-1)^3 \times (-5) \div [(-3)^2 + 2 \times (-5)]$

248. $-2^3 + (-2)^2 \times (-1) - (-2)^4 \div (-2)^3$

249. $(-5)^3 \times [2 - (-6)] - 300 \div 5$

250. $-(\frac{2}{3})^2 \times 3 - 2 \times (-\frac{2}{3}) + \frac{2}{3} - 4 \times (-1\frac{1}{2})^2$

251. $-3^2 \times \frac{1}{3} - \left[(-5)^2 \times (-\frac{3}{5}) - 240 \div (-4) \times \frac{1}{4} - 2 \right]$

252. $(-\frac{1}{6} - \frac{3}{20} + \frac{4}{5} - \frac{7}{12}) \times (-15 \times 4)$

253. $2 \div (-\frac{3}{7}) \times \frac{4}{7} \div (-5\frac{1}{7})$

254. $(-5.5) \times 3.2 + 4.5 \times 6.8$

$$255. 8 \times \left(-\frac{2}{5}\right) - (-4) \times \left(-\frac{2}{9}\right) + (-8) \times \frac{3}{5}$$

$$256. (-13) \times (-134) \times \frac{1}{13} \times \left(-\frac{1}{67}\right)$$

$$257. \left[(-5)^2 - 4^2 - (-3)^2\right] \times \left(\frac{7}{8} \div \frac{5}{11}\right) \times (-7)^4$$

$$258. 100 \div (-2)^2 - (-2) \div \left(-\frac{2}{3}\right) + (-2)^3$$

$$259. -7^2 + 2 \times (-3)^2 + (-6) \div \left(-\frac{1}{3}\right)^2$$

$$260. -5^2 - \left[(-2)^3 + (1 - 0.8 \times \frac{3}{4}) \div |-1 - 1|\right]$$

$$261. \left(-\frac{1}{2}\right)^3 - \left[\left(\frac{1}{2}\right)^2 \div (-1) - \frac{1}{16}\right] \times (-2) \div (-1)^{2010}$$

$$262. -\frac{5}{2} + \frac{28}{5} \div (-2) \times \left(-\frac{5}{14}\right)$$

$$263. \left(-4\frac{7}{8}\right) - \left(-5\frac{1}{2}\right) + \left(-4\frac{1}{4}\right) - 3\frac{1}{8}$$





264. $(-0.5) - (-3\frac{1}{4}) + 6.75 - 5\frac{1}{2}$

265. $(-6) \times (-4) + (-32) \div (-8) - 3$

266. $(-5\frac{1}{3}) \div (-16) \div (-2)$

267. $(-2)^4 \div (-8) - (-\frac{1}{2})^3 \times (-2^2)$

268. $-1^2 - \left[1\frac{3}{7} + (-12) \div 6 \right]^2 \times (-\frac{3}{4})^3$

269. $7\frac{1}{9} \times (1\frac{1}{2} - 1\frac{1}{8} + 3\frac{1}{4}) \times (-2\frac{1}{4})$

270. $\left(-\frac{5}{8}\right) \times (-4)^2 - 0.25 \times (-5) \times (-4)^3$

271. $\left[-|-16| - 2\frac{1}{4} \times (-4) \right] \div \left[\frac{1}{4} - (-\frac{13}{8}) \right]$

272. $(-9) \times (-4) + (-60) \div 12$

273. $0 - (-3)^2 \div 3 \times (-2)^3$

274. $-2^2 \times (-\frac{1}{2})^2 \div (-0.8)^3$

275. $-1\frac{3}{5} \times (\frac{7}{32} - \frac{5}{16}) \div 2\frac{1}{2}$

276. $-3^2 \times (-\frac{1}{3})^2 - (-2)^3 \div (-\frac{1}{2})^2$

277. $(-2)^2 - (-3)^3 \times (-1)^3 - (-3)^3$

278. $-2^3 \div (-\frac{1}{3})^2 - (-\frac{1}{3})^3 \times (-2^3)$

279. $(-2)^2 - 2 \times [(-\frac{1}{2})^2 - 3 \times \frac{3}{4}] \div \frac{1}{5}$

280. $31\frac{2}{7} - 22\frac{6}{13} + 4\frac{5}{7} + 11\frac{6}{13}$

281. $(\frac{1}{8} - \frac{5}{12}) \times 24 - (-3 - 3)^2 \div (-6 \div 3)^2$





282. $3 + 2^2 \times (-\frac{1}{5})$

283. $-7^2 + 2 \times (-3)^2 + (-6) \div (-\frac{1}{3})^2$

284. $(-3)^2 \times [-\frac{2}{3} + (-\frac{5}{9})]$

285. $8 + (-3)^2 \times (-2)$

286. $100 \div (-2)^2 - (-2) \div (-\frac{2}{3})$

287. $-3^4 \div 2\frac{1}{3} \times (-\frac{2}{3})^2$

288. $-(-3)^2 \times 2 - (-3)^4 \times 4$

289. $\frac{1}{2} + (-\frac{2}{3}) + \frac{4}{5} + (-\frac{1}{2}) + (-\frac{1}{3})$

290. $(-1.5) + 4\frac{1}{4} + 2.75 + (-5\frac{1}{2})$

291. $(-1)^{2006} + (-24) \times (\frac{1}{8} + 2\frac{2}{3} - 2.75)$

292. $(-1)^{10} \times 2 + (-2)^3 \div 4$

293. $(-10)^4 + [(-4)^2 - (3 + 3^2) \times 2]$

294. $-2^3 \div \frac{4}{9} \times (-\frac{2}{3})^3$

295. $-0.25^2 \div (-0.5)^3 + (\frac{1}{8} - \frac{1}{2}) \times (-1)^{10}$

296. $(-2)^4 \div (-8) - (-\frac{1}{2})^3 \times (-2^2)$

297. $[(-5)^2 - 4^2 - (-3)^2] \times (\frac{7}{8} \div \frac{5}{11}) \times (-7)^4$

298. $-\{(-3)^3 - [3 + 0.4 \times (-1\frac{1}{2}) \div (-2)]\}$

299. $-1^4 + (1 - 0.5) \times \frac{1}{3} \times [2 \times (-3)^2]$

300. $-4 \times [(1 - 7) \div 6]^3 + [(-5)^3 - 3] \div (-2)^3$





301. $-3^3 - [8 \div (-2)^3 - 1] + (-3)^2 \times (-2)^3 \div \frac{1}{0.25}$

302. $9.53 - 8 - (2 - |-11.64 + 1.53 - 1.36|)$

303. $73.17 - (812.03 - |219.83 + 518|)$

304. $-11 + |12 - (39 - 8)|$

305. $-9 - |5 - (9 - 45)|$

306. $-5.6 + 4.7 - |-3.8 - 3.8|$

307. $21\frac{1}{2} + (-36\frac{2}{7}) + (-16\frac{1}{2}) + (-45\frac{3}{7}) + (+10\frac{5}{7})$

308. $\frac{5}{31} \times (-\frac{2}{9}) \times (-2\frac{1}{15}) \times (-4\frac{1}{2})$

309. $(-\frac{5}{6}) \times 83 + (-\frac{5}{6}) \times (-13) - (-\frac{5}{6}) \times 28$

310. $2 - 2^2 - 2^3 - \dots - 2^{18} - 2^{19} + 2^{20}$

$$311. \frac{1}{1 \times 3} + \frac{1}{3 \times 5} + \dots + \frac{1}{1997 \times 1999}$$

$$312. 4 - 5 \times \left(-\frac{1}{2}\right)^3$$

$$313. \left(-\frac{2}{5}\right) + \left(-\frac{5}{6}\right) - (-4.9) - 0.6$$

$$314. (-10)^2 \div 5 \times \left(-\frac{2}{5}\right)$$

$$315. (-5)^3 \times \left(-\frac{3}{5}\right)^2$$

$$316. 5 \times (-6) - (-4)^2 \div (-8)$$

$$317. 2\frac{1}{4} \times \left(-\frac{6}{7}\right) \div \left(\frac{1}{2} - 2\right)$$

$$318. (-16 - 50 + 3\frac{2}{5}) \div (-2)$$

$$319. (-6) \times 8 - (-2)^3 - (-4)^2 \times 5$$





320. $(-\frac{5}{8}) \times (-4)^2 - 0.25 \times (-5) \times (-4)^3$

321. $(-3)^2 - (1\frac{1}{2})^3 \times \frac{2}{9} - 6 \div \left| -\frac{2}{3} \right|$

322. $(-\frac{1}{2})^2 + \frac{1}{2} \times (\frac{2}{3} - \left| \frac{2}{3} - 2 \right|)$

323. $-(-1)^{1997} - (1 - 0.5) \times \frac{1}{3}$

324. $-\frac{3}{2} \times [-3^2 \times (-\frac{2}{3})^2 - 2]$

325. $(-\frac{3}{4})^2 + (-\frac{2}{3} + 1) \times 0$

326. $-1^4 - (1 - 0.5) \times \frac{1}{3} \times [2 - (-3)^2]$

327. $-5^2 - [-4 + (1 - 0.2 \times \frac{1}{5}) \div (-2)]$

328. $(-5) \times (-3\frac{6}{7}) + (-7) \times (-3\frac{6}{7}) + 12 \times (-3\frac{6}{7})$

$$329. -1^4 - \frac{1}{6} \times [-2^2 - (-3)^3]$$

$$330. -4.03712 + 7.53712 - 36 \times (\frac{7}{9} - \frac{5}{6} + \frac{7}{18})$$

$$331. [-3^2 \times (-\frac{1}{3})^2 - 0.8] \div (-2\frac{2}{5})$$

$$332. -\frac{3}{8} - \left(+\frac{2}{5}\right) + \left(-\frac{5}{8}\right) - \frac{3}{5} - (-2) + 1$$

$$333. [(-3) \times (-4) - 5] \times [-8 - 2 \times (-6)] \div 4$$

$$334. -8 \div (-2)^3 - 4 \div (-1)^4$$

$$335. (-1155) \div [(-11) \times 3 \times (-5)]$$

$$336. -0.25^2 \div \left(-\frac{1}{2}\right)^4 \times (-1)^{99} + \left(1\frac{3}{8} + 2\frac{1}{3} - 3.75\right) \times 24$$

$$337. 1 - 3\frac{1}{11} \div \frac{4}{3} \times \frac{3}{4} \div \frac{34}{11}$$

$$338. \left| -1\frac{1}{3} - \left(-\frac{3}{4}\right) \right| - \left(\left| -1\frac{1}{3} \right| - \left| -\frac{3}{4} \right| \right)$$



$$339. -2^2 - (-2)^2 - 2^3 - (-2)^3$$

$$340. 1\frac{2}{3} - \left\{ 5\frac{3}{4} - 2^2 \div \left[\left(-\frac{1}{2} \right)^2 + 3 \times \left(-\frac{3}{4} \right) \right] \times \frac{1}{8} \right\}$$

$$341. |-2^2 - (-2)^2| - |(-3)^2 \div (-3)^3| + \left| -\frac{1}{3} \right| - |4 \div 9| - |-7^2|$$

$$342. -2\frac{1}{2} - 5\frac{3}{5} \div (-2) \times \left(-\frac{5}{14} \right)$$

$$343. (-1.5)^2 \div \left(-\frac{3}{4} \right) \times 1\frac{4}{3} - 2$$

$$344. -1^4 - \left[-\left(\frac{1}{2} \right)^3 \right] - (-1)^3$$

$$345. 1 - 0.2 \times \left[-3 - 4 \times \left(3\frac{2}{5} - 5.3 \right) \right]$$

$$346. -3^2 - (-3)^2 + (-5)^2 \times \left(-\frac{4}{5} \right) - (-0.3)^2 \div |-0.9|$$

$$347. 1\frac{1}{2} \times \left[3 \times \left(-\frac{2}{3} \right)^2 - (-1)^4 \right] + \frac{1}{4} \div \left(-\frac{1}{2} \right)^3$$

$$348. \left(7.195 - 7\frac{1}{8}\right) \div \left(0.25 - \frac{1}{4} \div \frac{1}{13} \times 13\right)$$

$$349. -1\frac{1}{2} \div \frac{3}{4} \times (-0.2) \times 1\frac{3}{4} \div 1.4 \times \left(-\frac{3}{5}\right)$$

$$350. \left\{1 + \left[\frac{1}{16} - (-0.75)^3\right] \times (-2)^4\right\} \div \left(-\frac{1}{16} - \frac{3}{4} - 0.5\right)$$

$$351. (-2) \times \left(-\frac{1}{2}\right)^2 - 3 \times 4^2 - \left[1 - \frac{3}{5} \times \left(1 - \frac{4}{9}\right)^2\right] \times \left[9^2 \times \left(1 - \frac{1}{3} - \frac{1}{9}\right)\right]$$

$$352. -1^4 - (1 - 0.5) \times \frac{1}{3} \times [2 - (-3)^2]$$

$$353. -2^3 - 3 \times (-1)^3 - (-1)^4$$

$$354. -3 - \left[-5 + \left(1 - 0.2 \times \frac{3}{5}\right) \div (-2)\right]$$

$$355. -2 - (-17) \div \left[1 - \frac{1}{4} + (-0.6)\right]$$

$$356. -1^2 - [1^3 - (1 - 0.64 \div 32)]$$



$$357. \left[\left(-\frac{1}{2} \right)^3 - 2.25 \right] \div \left(-\frac{3}{8} \right) + \left(-\frac{3}{5} \right) \times \left(-1\frac{2}{3} \right)^2$$

$$358. -1^6 - [(-0.4) \times (-2.5)]^2$$

$$359. \left(-3^2 \times \frac{1}{6^2} \right)^3 \div \left(\frac{1}{2} \right)^6$$

$$360. \frac{1}{4} \times \left(4.85 \div \frac{5}{18} - 3.6 + 6.15 \times 3\frac{3}{5} \right) - \left[1.75 \times \left(1\frac{2}{3} + \frac{19}{21} \right) - 5.5 \right]$$

$$361. \left\{ -1 \times \left[(-0.4)^2 - (-3.1 + 2.6) \times \left(-\frac{4}{5} \right) \right] - 1 \right\} - 0.3^2 \div (-0.1)^2$$

$$362. 1\frac{5}{7} \times \left(-3\frac{1}{3} \right) \div (-50) \times \left(-2\frac{3}{4} \right) \div \left(1\frac{1}{8} \right)$$

$$363. \left(\frac{11}{12} - \frac{5}{6} + \frac{7}{8} - \frac{23}{24} \right) \times (-48)$$

$$364. \frac{4}{7} \times \left(-\frac{5}{23} \right) - \left(-\frac{3}{7} \right) \times \left(-\frac{5}{23} \right) - \frac{5}{23} \times 2\frac{2}{7}$$

$$365. \left(-1999\frac{1997}{1998} \right) \times (-666)$$

$$366. -3^3 \times (-5) + 32 \div (-2)^3 - |-4 \times 6| + \left(-2\frac{5}{8} + 0.625\right)^2$$

$$367. (-3)^4 \div \frac{9}{4} \times \frac{4}{9} - \left[\frac{6}{11} \times \left(\frac{1}{2} - \frac{1}{3}\right) \times \left(-2\frac{1}{5}\right) + 0.2 \right]$$

$$368. 3\frac{3}{8} \times \left(8\frac{1}{3} - 3\frac{1}{8}\right) \div 1\frac{1}{24} \times \frac{8}{27}$$

$$369. -3^2 + \left(-2\frac{1}{2}\right)^2 - (-2)^3 + (-2)$$

$$370. \left| -\left(\frac{1}{3}\right)^2 - \left(\frac{1}{2}\right) \right| + \left| \left(\frac{2}{3}\right)^2 \times \frac{1}{2} \div \frac{|-2|}{3} - \frac{5}{3} - \left(-\frac{1}{2}\right) \right|$$

$$371. \frac{\left(-\frac{7}{18}\right) \times (-4.5) + \frac{1}{6} \times (-1)^{2000}}{\left(-13\frac{1}{3}\right) \times (-1)^{1999} - \left(-3\frac{3}{4}\right) \div \left(-\frac{5}{16}\right)} \div 2\frac{7}{8}$$

$$372. \frac{57}{58} \times (-57)$$

$$373. -45\frac{1}{43} \div (-44)$$



$$374. \left(-0.843 \times 3 \frac{5}{49} + 0.157 \times 3 \frac{5}{49} \right) \times 49$$

$$375. 33300 \div (-37)$$

$$376. (-1990) \times (-84) - 48 \times (-1990) - 1990 \times 14 - 18 \times 1990$$

$$377. 999 + (-999) \times (-999) + 999 - 999999$$

$$378. -149 \div (-297) \times (-483) \div (-149) \times (-297) \div (-483)$$

$$379. (-1)^7 \times \left\{ \left[4 \frac{2}{3} \div (-4) + \left(-1 \frac{1}{4} \right) \times (-0.4) \right] \div \left(-\frac{1}{3} \right) - 2 \right\}$$

$$380. \left\{ -3 \div \left(-1 \frac{1}{2} \right)^2 - 2^2 \times 0.125 \times \left[(-1)^3 \div \frac{4}{3} + \frac{11}{22} \right] \right\} \div \left[2 \times \left(-\frac{1}{2} \right)^2 - 1 \right]$$

$$381. \frac{23 \frac{11}{12} + 10.125 \div \left(-\frac{3}{4} \right)^3}{(-1)^{1001} - \frac{1}{\frac{1}{6} + \frac{1}{4}}}$$

$$382. (0.125)^{1995} \times [(-2)^{1995}]^3$$

$$383. \left(\frac{5}{6}\right)^2 \times (0.6 + 1\frac{4}{5} - 2\frac{1}{10}) \div \left(-\frac{3}{10}\right)$$

$$384. \left(-\frac{3}{2}\right)^3 \times (-0.6)^2 - \left(-\frac{4}{5}\right)^2 \times 1.5^3 - 2^3 \div \left(-\frac{2}{3}\right)^3$$

$$385. 3 + 3^2 + 3^3 + \dots + 3^{2006}$$

$$386. 1997 \times 20002000 - 2000 \times 19971997$$

$$387. 1949^2 - 1950^2 + 1951^2 - 1952^2 + \dots + 1997^2 - 1998^2 + 1999^2$$

$$388. \left(1 - \frac{1}{2^2}\right)\left(1 - \frac{1}{3^2}\right)\dots\left(1 - \frac{1}{9^2}\right)\left(1 - \frac{1}{10^2}\right)$$

$$389. 1 + \frac{1}{1+2} + \frac{1}{1+2+3} + \dots + \frac{1}{1+2+3+100}$$

$$390. 987654321 \times 987654324 - 987654323 \times 987654322$$

$$391. \frac{1}{2} + \left(\frac{1}{3} + \frac{2}{3}\right) + \left(\frac{1}{4} + \frac{2}{4} + \frac{3}{4}\right) + \dots + \left(\frac{1}{100} + \frac{2}{100} + \dots + \frac{99}{100}\right)$$

$$392. -\frac{1}{2} - \left(-\frac{3}{4}\right) + \left(-\frac{5}{6}\right) - \frac{2}{3}$$





393. $8 \times \left(-\frac{3}{4}\right) \times (-4) \times (-2)$

394. $\frac{11}{5} \times \left(\frac{1}{3} - \frac{1}{2}\right) \times \frac{3}{11} \div \frac{5}{4}$

395. $(-5)^3 - 3 \times \left(-\frac{1}{2}\right)^4$

396. $-2^4 + (3-7)^2 - 2 \times (-1)^2$

397. $(-1)^{10} \times 2 + (-2)^3 \div 4$

398. $(-5)^2 \times \left(-\frac{3}{5}\right) \div \left(-\frac{9}{25}\right)$

399. $(-125) \div \left(-\frac{3}{7}\right) + 62 \div \frac{3}{7} + 187 \div \left(-\frac{3}{7}\right)$

400. $\frac{2}{5} \div \left(-2\frac{2}{5}\right) - \frac{8}{21} \times \left(-1\frac{3}{4}\right) - 0.5 \div 2 \times \frac{7}{2}$

401. $25 \times \frac{3}{4} - (-25) \times \frac{1}{2} - 25 \times \frac{1}{4}$

402. $8 - (-4) \div 2^3 \times 3$

403. $7 \times 3^2 \div 3 + (-3)^2$

404. $-5 + (-2)^4 - 2^4 \div (-2)^3$

405. $(-28) \div (-6 + 4) + (-1) \times 5$

406. $2 \div (-2) + 0 \div 7 - (-8) \times (-2)$

407. $\left[1\frac{1}{24} - \left(\frac{3}{8} + \frac{1}{6} - \frac{3}{4} \right) \times 24 \right] \div 5$

408. $12^2 \div (-3)^3 \div (-2)^3 - (-9)^2 \div 3^3$

409. $-2^2 \div 2\frac{2}{3} \times \left(1 - \frac{1}{3} \right)^2$

410. $-2^3 + (-2)^2 \times (-1) - (-2)^4 \div (-2)^3$

411. $(-1)^3 \times (-5) \div \left[(-3)^2 + 2 \times (-5) \right]$

412. $-\frac{1}{12} - \left(-1\frac{3}{4} \right) - 8\frac{5}{12} - 6.75$





$$413. -5^2 - \left[(-2)^3 + (1 - 0.8 \times \frac{3}{4}) \div |-1 - 1| \right]$$

$$414. 1\frac{1}{2} \times \frac{5}{7} - (-\frac{5}{7}) \times 2\frac{1}{2} + (-\frac{1}{2}) \times \frac{5}{7}$$

$$415. -3^2 \div \frac{12}{5} - (-2) \times 4$$

$$416. 4 \times (-3)^2 - 15 \div (-3) - 50$$

$$417. -1^3 - (1 - 0.5) \times \frac{1}{7} \times [2 - (-3)^2]$$

$$418. \left[50 - \left(\frac{7}{9} - \frac{11}{12} + \frac{1}{6} \right) \times (-6)^2 \right] \div (-7)^2$$

$$419. \left[(-1)^5 \div 2.5 - 0.6 \right] - \left| 0.25 + 3 \times \left(-\frac{1}{2} \right)^3 \right|$$

$$420. 7\frac{1}{9} \times (1\frac{1}{2} - 1\frac{1}{8} + 3\frac{1}{4}) \times (-2\frac{1}{4})$$

$$421. \left[-3^4 - 2\frac{1}{4} \times (-4) \right] \div (14\frac{9}{13} - 16\frac{9}{13})$$

$$422. \left[\left(2\frac{1}{2} \right)^3 - \left(-1\frac{1}{2} \right)^3 \right] \div (5^2 + 5 \times 3 + 3^2)$$

$$423. -5^2 - \left[-(-2)^3 + (1 - 0.8 \times \frac{7}{4}) \div |-1 - 1| \right]$$

$$424. (-5\frac{1}{3}) \div (-16) \div (-2)$$

$$425. -4 + 2 \times (-3) - 6 \div 0.25$$

$$426. (-5) \div [1.85 - (2 - 1\frac{3}{4}) \times 7]$$

$$427. 18 \div \{1 - [0.4 + (1 - 0.4)] \times 0.4\}$$

$$428. 1 \div (\frac{1}{6} - \frac{1}{3}) \times \frac{1}{6}$$

$$429. -3 - [4 - (4 - 3.5 \times 1)] \times [-2 + (-3)]$$

$$430. (3.5 - 7.75 - 4.25) \div 1.1$$

$$431. 5\frac{1}{2} - (-\frac{6}{11}) - \left[-\frac{1}{4} + (-2)^3 \right] \times (-2\frac{2}{3}) \div \frac{1}{3} - (1 - (-\frac{1}{2})^2 \div 1)$$





432. $0.125 + (+3\frac{1}{4}) + (-3\frac{1}{8}) + (+\frac{1}{8}) + (-0.25)$

433. $-5\frac{5}{6} - [-(-9\frac{2}{3})] - 3\frac{1}{2} + 17.75$

434. $1\frac{1}{2} \times [3 \times (-\frac{2}{3}) - 1] - \frac{1}{3} \times (-8) - 8$

435. $\left| -\frac{7}{9} \right| \div (\frac{2}{3} - \frac{1}{5}) - \frac{1}{3} \times (-4)$

436. $(-0.125)^7 \times 8^8$

437. $(0.25)^{40} \times 256^{10}$

438. $1 + 2 + (-3) + (-4) + 5 + 6 + (-7) + (-8) + \dots + (-23) + (-24)$

439. $\left| \frac{1}{4} - \frac{1}{2} \right| + \left| \frac{1}{6} - \frac{1}{4} \right| + \left| \frac{1}{8} - \frac{1}{6} \right| + \dots + \left| \frac{1}{2010} - \frac{1}{2008} \right|$

440. $(\frac{1}{2009} - 1) \times (\frac{1}{2008} - 1) \times (\frac{1}{2007} - 1) \times \dots \times (\frac{1}{1000} - 1)$

441. $19 \div (-7) - 128 \div (-7) + 33 \div (-7)$

$$442. \frac{1}{1 \times 2} + \frac{1}{2 \times 3} + \frac{1}{3 \times 4} + \frac{1}{4 \times 5} + \frac{1}{5 \times 6}$$

$$443. \frac{1}{10 \times 11} + \frac{1}{11 \times 12} + \dots + \frac{1}{59 \times 60}$$

$$444. \frac{2}{10 \times 9} + \frac{2}{9 \times 8} + \dots + \frac{2}{5 \times 4} + \frac{2}{4 \times 3}$$

$$445. \frac{1}{1} + \frac{1}{1+2} + \frac{1}{1+2+3} + \dots + \frac{1}{1+2+\dots+100}$$

$$446. \frac{1}{1 \times 3} + \frac{1}{3 \times 5} + \frac{1}{5 \times 7} + \dots + \frac{1}{99 \times 101}$$

$$447. 25 \times \left(\frac{1}{1 \times 3} + \frac{1}{3 \times 5} + \frac{1}{5 \times 7} + \dots + \frac{1}{23 \times 25} \right)$$

$$448. \frac{251}{4 \times 8} + \frac{251}{8 \times 12} + \frac{251}{12 \times 16} + \dots + \frac{251}{2000 \times 2004} + \frac{251}{2004 \times 2008}$$

$$449. \frac{3}{2 \times 5} + \frac{2}{5 \times 7} + \frac{4}{7 \times 11} + \frac{5}{11 \times 16} + \frac{6}{16 \times 22} + \frac{7}{22 \times 29} + \frac{1}{29}$$

$$450. \left(\frac{1}{8} + \frac{1}{24} + \frac{1}{48} + \frac{1}{80} + \frac{1}{120} + \frac{1}{168} + \frac{1}{224} + \frac{1}{288} \right) \times 128$$





$$451. \frac{1}{6} + \frac{1}{12} + \frac{1}{20} + \frac{1}{30} + \frac{1}{42} + \frac{1}{56} + \frac{1}{72} + \frac{1}{90}$$

$$452. 1 + \frac{1}{3} + \frac{1}{6} + \frac{1}{10} + \frac{1}{15} + \frac{1}{21} + \frac{1}{28}$$

$$453. \frac{1}{2} - \frac{1}{6} - \frac{1}{12} - \frac{1}{20} - \frac{1}{30} - \frac{1}{42} - \frac{1}{56} - \frac{1}{72} - \frac{1}{90}$$

$$454. \frac{1}{10} + \frac{1}{40} + \frac{1}{88} + \frac{1}{154} + \frac{1}{238}$$

$$455. \frac{1}{1 \times 3 \times 5} + \frac{1}{3 \times 5 \times 7} + \frac{1}{5 \times 7 \times 9} + \cdots + \frac{1}{2001 \times 2003 \times 2005}$$

$$456. \frac{\frac{7}{18} \times 4.5 + 0.1\dot{6}}{13\frac{1}{3} - 3.75 \times 3.2} \times \left(\frac{1}{3} + \frac{1}{15} + \frac{1}{35} + \frac{1}{63} \right)$$

$$457. 1\frac{1}{2} + 2\frac{1}{6} + 3\frac{1}{12} + 4\frac{1}{20} + \cdots + 20\frac{1}{420}$$

$$458. 2008\frac{1}{18} + 2009\frac{1}{54} + 2010\frac{1}{108} + 2011\frac{1}{180} + 2012\frac{1}{270}$$

$$459. \frac{1}{2} + \frac{1}{6} + \frac{2}{15} + \frac{2}{35} + \frac{4}{77}$$

$$460. \frac{1}{3} + \frac{1}{15} + \frac{1}{35} + \frac{1}{63} + \frac{1}{99} + \frac{1}{143} + \frac{1}{195}$$

$$461. \frac{1}{2} + \frac{5}{6} + \frac{11}{12} + \frac{19}{20} + \frac{29}{30} + \cdots + \frac{9701}{9702} + \frac{9899}{9900}$$

$$462. \frac{1}{1 \times 2 \times 3} + \frac{1}{2 \times 3 \times 4} + \cdots + \frac{1}{7 \times 8 \times 9}$$

$$463. \frac{1}{1 \times 2 \times 3} + \frac{1}{2 \times 3 \times 4} + \cdots + \frac{1}{98 \times 99 \times 100}$$

$$464. \frac{1}{1 \times 3 \times 5} + \frac{1}{2 \times 4 \times 6} + \frac{1}{3 \times 5 \times 7} + \cdots + \frac{1}{20 \times 22 \times 24}$$

$$465. \frac{4}{1 \times 3 \times 5} + \frac{4}{3 \times 5 \times 7} + \cdots + \frac{4}{93 \times 95 \times 97} + \frac{4}{95 \times 97 \times 99}$$

$$466. \frac{99}{1 \times 2 \times 3} + \frac{98}{2 \times 3 \times 4} + \frac{97}{3 \times 4 \times 5} + \cdots + \frac{1}{99 \times 100 \times 101}$$

$$467. \frac{1}{1 \times 2 \times 3 \times 4} + \frac{1}{2 \times 3 \times 4 \times 5} + \frac{1}{3 \times 4 \times 5 \times 6} + \cdots + \frac{1}{6 \times 7 \times 8 \times 9} + \frac{1}{7 \times 8 \times 9 \times 10}$$

$$468. \frac{3}{1 \times 2 \times 3 \times 4} + \frac{3}{2 \times 3 \times 4 \times 5} + \cdots + \frac{3}{17 \times 18 \times 19 \times 20}$$

$$469. \frac{5}{1 \times 2 \times 3} + \frac{7}{2 \times 3 \times 4} + \cdots + \frac{19}{8 \times 9 \times 10}$$



$$470. 1155 \times \left(\frac{5}{2 \times 3 \times 4} + \frac{7}{3 \times 4 \times 5} + \cdots + \frac{17}{8 \times 9 \times 10} + \frac{19}{9 \times 10 \times 11} \right)$$

$$471. \frac{3}{1 \times 2 \times 4 \times 5} + \frac{4}{2 \times 3 \times 5 \times 6} + \frac{5}{3 \times 4 \times 6 \times 7} + \cdots + \frac{12}{10 \times 11 \times 13 \times 14}$$

$$472. \frac{1}{2} + \frac{2}{2 \times 3} + \frac{3}{2 \times 3 \times 4} + \frac{4}{2 \times 3 \times 4 \times 5} + \cdots + \frac{9}{2 \times 3 \times 4 \cdots \times 10}$$

$$473. \frac{1}{1 \times 2} + \frac{2}{1 \times 2 \times 3} + \frac{3}{1 \times 2 \times 3 \times 4} + \frac{4}{1 \times 2 \times 3 \times 4 \times 5} + \frac{5}{1 \times 2 \times 3 \times 4 \times 5 \times 6} + \frac{6}{1 \times 2 \times 3 \times 4 \times 5 \times 6 \times 7}$$

$$474. \frac{2}{3!} + \frac{3}{4!} + \cdots + \frac{99}{100!}$$

$$475. \frac{2}{1 \times (1+2)} + \frac{3}{(1+2) \times (1+2+3)} + \frac{4}{(1+2+3) \times (1+2+3+4)} + \cdots + \frac{50}{(1+2+3+\cdots+49) \times (1+2+\cdots+50)}$$

$$476. \frac{2}{1 \times (1+2)} + \frac{3}{(1+2) \times (1+2+3)} + \frac{4}{(1+2+3) \times (1+2+3+4)} + \cdots + \frac{100}{(1+2+\cdots+99) \times (1+2+\cdots+100)}$$

$$477. 1 - \frac{2}{1 \times (1+2)} - \frac{3}{(1+2) \times (1+2+3)} - \cdots - \frac{10}{(1+2+3+\cdots+9) \times (1+2+3+\cdots+10)}$$

$$478. \frac{1}{3^2-1} + \frac{1}{5^2-1} + \frac{1}{7^2-1} + \frac{1}{9^2-1} + \frac{1}{11^2-1} + \frac{1}{13^2-1}$$

$$479. (1 - \frac{1}{2^2}) \times (1 - \frac{1}{3^2}) \times (1 - \frac{1}{4^2}) \times (1 - \frac{1}{5^2}) \times \dots \times (1 - \frac{1}{48^2}) \times (1 - \frac{1}{49^2})$$

$$480. \frac{3}{1^2 \times 2^2} + \frac{5}{2^2 \times 3^2} + \frac{7}{3^2 \times 4^2} + \dots + \frac{15}{7^2 \times 8^2}$$

$$481. \frac{3^2+1}{3^2-1} + \frac{5^2+1}{5^2-1} + \frac{7^2+1}{7^2-1} + \dots + \frac{1993^2+1}{1993^2-1} + \frac{1995^2+1}{1995^2-1}$$

$$482. \frac{1^2+3^2}{2^2-1} + \frac{2^2+4^2}{3^2-1} + \frac{3^2+5^2}{4^2-1} + \dots + \frac{98^2+100^2}{99^2-1}$$

$$483. \frac{1^2}{1 \times 3} + \frac{2^2}{3 \times 5} + \frac{3^2}{5 \times 7} + \dots + \frac{50^2}{99 \times 101}$$

$$484. \frac{5+6}{5 \times 6} - \frac{6+7}{6 \times 7} + \frac{7+8}{7 \times 8} - \frac{8+9}{8 \times 9} + \frac{9+10}{9 \times 10}$$

$$485. \frac{3}{5} + \frac{6}{7} + \frac{5}{6} + \frac{7}{12} + \frac{9}{20} + \frac{11}{30} + \frac{13}{42}$$

$$486. \frac{1}{3} + \frac{3}{4} + \frac{2}{5} + \frac{5}{7} + \frac{7}{8} + \frac{9}{20} + \frac{10}{21} + \frac{11}{24} + \frac{19}{35}$$





$$487. \frac{1}{3} + \frac{2}{5} + \frac{3}{7} + \frac{7}{12} + \frac{9}{20} + \frac{11}{28} + \frac{17}{30} + \frac{25}{42}$$

$$488. \frac{1}{2} + \frac{1}{3} + \frac{1}{30} + \frac{1}{31} + \frac{1}{41} + \frac{20}{51} + \frac{10}{119} + \frac{26}{120} + \frac{38}{123} + \frac{27}{124}$$

$$489. \left[\left(\frac{35}{6} - \frac{49}{12} + \frac{63}{20} - \frac{77}{30} + \frac{91}{42} - \frac{105}{56} \right) - 1\frac{3}{8} \right] \div \frac{1}{8}$$

$$490. 1 - \frac{5}{6} + \frac{7}{12} - \frac{9}{20} + \frac{11}{30} - \frac{13}{42} + \frac{15}{56} - \frac{17}{72} + \frac{19}{90}$$

$$491. \frac{1}{4} + \frac{1}{5} + \frac{7}{12} + \frac{9}{20} + \frac{8}{15} + \frac{17}{30} + \frac{5}{12}$$

$$492. \frac{1^2 + 2^2}{1 \times 2} + \frac{2^2 + 3^2}{2 \times 3} + \dots + \frac{18^2 + 19^2}{18 \times 19} + \frac{19^2 + 20^2}{19 \times 20}$$

$$493. \left(\frac{1}{1 \times 2007} + \frac{1}{2 \times 2006} + \dots + \frac{1}{2006 \times 2} + \frac{1}{2007 \times 1} \right) - \frac{2007}{2008} \left(\frac{1}{1 \times 2006} + \frac{1}{2 \times 2005} + \dots + \frac{1}{2006 \times 1} \right)$$

$$494. \frac{1}{2 \times 3} + \frac{1}{4 \times 5} + \dots + \frac{1}{98 \times 99} + \frac{1}{51} + \frac{1}{52} + \dots + \frac{1}{99}$$

$$495. \frac{2}{3} + \frac{4}{3 \times 5} + \frac{6}{3 \times 5 \times 7} + \dots + \frac{12}{3 \times 5 \times 7 \times 9 \times 11}$$

$$496. \frac{1}{1 \times 3} + \frac{2}{3 \times 5} + \frac{2^2}{5 \times 7} + \cdots + \frac{2^8}{17 \times 19} - \left(\frac{2^3}{1 \times 3 \times 5} + \frac{2^4}{3 \times 5 \times 7} + \cdots + \frac{2^{11}}{17 \times 19 \times 21} \right)$$

$$497. 3x - 2 = 10 - 2(x + 1)$$

$$498. \frac{2x + 1}{3} - \frac{5x - 1}{6} = 1$$

$$499. 7x + 8 = 5x + 2$$

$$500. 3(x - 3) - 2(2x + 1) = 6$$

$$501. -3x + 7 = 4x + 21$$

$$502. \frac{x + 4}{5} - 1 = \frac{x - 2}{2} + x$$

$$503. 9x - 2(-x + 4) = 3$$

$$504. \frac{3x - 1.5}{0.2} - \frac{2x - 1}{0.9} = \frac{2 - 4x}{0.5}$$

$$505. \frac{2x - 1}{6} = \frac{5x + 1}{8}$$

$$506. 3(x - 3) - (2x - 1) = 1$$

$$507. \frac{x + 1}{3} - x = \frac{2x + 5}{4}$$

$$508. x - \frac{x - 1}{2} = 2 - \frac{x + 2}{3}$$

$$509. \frac{2x - 1}{3} = 1 - \frac{x}{2}$$

$$510. \frac{x - 1}{2} - \frac{x + 2}{5} = \frac{x}{3} - 1$$

$$511. \frac{3 - 7x}{4} - \frac{5x + 8}{2} = 1$$





$$512. \frac{x}{3} - \frac{3x-1}{6} = 1$$

$$513. 3x + 6 = 31 - 2x$$

$$514. 4 - x = 3(2 - x)$$

$$515. \frac{x}{5} - \frac{3-2x}{2} = 1$$

$$516. \frac{4x+9}{5} - \frac{3+2x}{3} = \frac{x-5}{2}$$

$$517. \frac{4x}{3} = \frac{x-3}{5} - 1$$

$$518. 2x + 5 = 3(x-1)$$

$$519. 2(2x+1) - 2(1+x) = x+3$$

$$520. \frac{x-1}{2} + 1 = x$$

$$521. 3(4x-1) + 5(3x+2) = 7(2x-1) + 1$$

$$522. \frac{x-2}{6} - \frac{x+2}{3} = 1 + \frac{x-1}{2}$$

$$523. \frac{x+4}{0.2} - \frac{x-3}{0.5} = 2$$

$$524. 2 - \frac{2x-4}{3} = -\frac{x-4}{6}$$

$$525. \frac{2(3x+1)}{3} - 2 = x$$

$$526. 2(3x+1) - 6 = 3x$$

$$527. 8 - \frac{3x-4}{3} = -\frac{x-4}{6}$$

$$528. 3(6-2x) - 4(18+3x) = 1$$

$$529. \frac{1}{2} \left(1 - \frac{x}{3}\right) - \frac{2}{3} \left(8 - \frac{x}{4}\right) = 1$$

$$530. 3x = \frac{1}{5}x + \frac{3}{4}$$

$$531. \frac{x+1}{5} - \frac{x-1}{7} = 2$$

$$532. 3x + \frac{2x-1}{3} = 3 - \frac{x+1}{2}$$

$$533. (3x+2) + 2[(x-1) - (2x+1)] = 6$$

$$534. 5(x-5) + 2x = -4$$

$$535. \frac{2x-5}{3} - \frac{x-6}{2} = 1$$

$$536. 3x + \frac{2x-1}{3} = 3 - \frac{x+1}{2}$$

$$537. 2(x-7) + 3 = 29 - 5(2x-4)$$

$$538. x - \frac{1}{2} \left[x - \frac{1}{2} \left(x - \frac{1}{2} \right) \right] = 2$$

$$539. \frac{2x-1}{3} = 1 + \frac{x-3}{2}$$

$$540. \frac{2x+5}{6} + \frac{x+11}{4} + x = 0$$

$$541. \frac{2x+1}{3} - \frac{5x-1}{6} = 1$$

$$542. 5(x+8) - 5 = 6(2x-7)$$

$$543. x - \frac{x-1}{2} = 2 - \frac{x+2}{3}$$

$$544. \frac{2x-1}{3} = \frac{x+2}{4} - 1$$





$$545. \frac{2x-1}{5} - \frac{x-1}{6} = 2$$

$$546. 1 - 3(8 - x) = -2(15 - 2x)$$

$$547. \frac{x-3}{2} - \frac{2x+1}{3} = 1$$

$$548. \frac{2x-1}{3} = \frac{x+2}{4} - 1$$

$$549. 5(x+8) = 6(2x-7) + 5$$

$$550. \frac{x+2}{4} - \frac{2x-3}{6} = 1$$

$$551. x - \frac{x-1}{2} = \frac{2}{3} - \frac{x+2}{3}$$

$$552. \frac{x-3}{5} - \frac{x-4}{3} = 1$$

$$553. 5(x-2) - 7(x+8) = 3$$

$$554. \frac{4x+2}{5} - \frac{5x-7}{10} = 1$$

$$555. \frac{2x-1}{3} = 1 - \frac{x+2}{4}$$

$$556. \frac{2x+1}{6} + \frac{x-1}{3} = 1$$

$$557. \frac{2x-1}{4} - 1 = \frac{5x-7}{6}$$

$$558. 3x - 2 = 10 - 2(x+1)$$

$$559. \frac{2x-3}{3} = 1 - \frac{x+2}{4}$$

$$560. \frac{5x+1}{6} = \frac{9x+1}{8} - \frac{1-x}{3}$$

$$561. 4(2x + 3) = 8(1 - x) - 5(x - 2)$$

$$562. x - \frac{x-1}{3} = 7 - \frac{x+3}{5}$$

$$563. x - \frac{x-2}{5} = -3 - \frac{2x-5}{3}$$

$$564. \frac{3x-1}{4} - 1 = \frac{5x-2}{6}$$

$$565. \frac{x-3}{2} - \frac{4x+1}{5} = 1$$

$$566. \frac{2x-1}{3} - \frac{10x+1}{6} = \frac{2x+1}{4} - 1$$

$$567. 0.9 + \frac{0.5x - 0.2}{0.2} = \frac{1.5 - 5x}{0.5}$$

$$568. \frac{x}{20} + \frac{x}{12} = 1$$

$$569. 3x + \frac{2x-1}{3} = 3 - \frac{x+1}{2}$$

$$570. \frac{x-1}{2} - \frac{2x+3}{3} = 1$$

$$571. 1 - \frac{x+3}{6} = \frac{x}{2}$$

$$572. \begin{cases} x + y = 4 \\ 2x - y = -1 \end{cases}$$

$$573. \begin{cases} 3x + 2y = 14 \\ x = y + 3 \end{cases}$$

$$574. \begin{cases} \frac{x}{3} - \frac{y}{4} = 1 \\ 3x - 4y = 2 \end{cases}$$





$$575. \begin{cases} y = 1 - x \\ 5x - 2y = 8 \end{cases}$$

$$576. \begin{cases} 3x + 5y = 1 \\ 5x + 3y = 7 \end{cases}$$

$$577. \begin{cases} 3x + 2y = 14 \\ x = y + 3 \end{cases}$$

$$578. \begin{cases} 2a + 3b = 2 \\ 4a - 9b = -1 \end{cases}$$

$$579. \begin{cases} 2x + 3y = 16 \\ x + 4y = 13 \end{cases}$$

$$580. \begin{cases} 2x - y = 6 \\ 3x + 4y = -2 \end{cases}$$

$$581. \begin{cases} 3x + 2y = 5 \\ \frac{x+1}{3} - \frac{1-y}{5} = \frac{4}{15} \end{cases}$$

$$582. \begin{cases} 10x + 3y = 17 \\ 8x - 3y = 1 \end{cases}$$

$$583. \begin{cases} 2x + 3y = 17 \\ 3x - 2y = 6 \end{cases}$$

$$584. \begin{cases} 4x - 15y + 17 = 20 \\ 6x - 25y - 23 = -16 \end{cases}$$

$$585. \begin{cases} 3x + 5y = 21 \\ 2x - 4y = -11 \end{cases}$$

$$586. \begin{cases} 3x + 2y = 5x + 2 \\ 2(3x + 2y) = 2x + 8 \end{cases}$$

$$587. \begin{cases} \frac{m}{3} + \frac{n}{6} = 2 \\ \frac{m}{4} + \frac{n}{7} = 2 \end{cases}$$

$$588. \begin{cases} 3x + 2y = 21 \\ 2x - y = 14 \end{cases}$$

$$589. \begin{cases} 0.3x - y = 1 \\ 0.2x - 0.5y = 19 \end{cases}$$

$$590. \begin{cases} 3x - y = 5 \\ 4x + 2y = 23 \end{cases}$$

$$591. \begin{cases} 3x - 2y = 5 \\ 4x + 5y = 12 \end{cases}$$

$$592. \begin{cases} 2x + y = 13 \\ 3x - 2y = -12 \end{cases}$$

$$593. \begin{cases} 2x - y = 3 \\ 3x - 4y = 3 \end{cases}$$

$$594. \begin{cases} \frac{x}{2} + \frac{y}{3} = 6 \\ x - y = -3 \end{cases}$$

$$595. \begin{cases} 2x - 3y = 1 \\ x + 2y = 4 \end{cases}$$

$$596. \begin{cases} 3x + 5y = 8 \\ 2x - y = 1 \end{cases}$$

$$597. \begin{cases} 3x + 5y = 16 \\ 2x - 3y = 17 \end{cases}$$

$$598. \begin{cases} 3x + 4y = 7.6 \\ 2x + y = 4.4 \end{cases}$$

$$599. \begin{cases} -x + 3y = 7 \\ 2x = 5y \end{cases}$$

$$600. \begin{cases} 3x + 4y = 16 \\ 5x + 6y = 33 \end{cases}$$

$$601. \begin{cases} 5x = y + 4 \\ 3x + 2y - 18 = 0 \end{cases}$$



$$602. \begin{cases} \frac{x+1}{3} = 3y \\ 2(x+1) - 9y = 6 \end{cases}$$

$$603. \begin{cases} \frac{1}{2}x - \frac{3}{2}y = -1 \\ 2x - 3 = -y \end{cases}$$

$$604. \begin{cases} \frac{2x+y}{3} - 2y = 0 \\ 2(2x+y) - 5 = 7y \end{cases}$$

$$605. \begin{cases} 3(x+y) - 4(x-y) = 6 \\ \frac{x+y}{2} - \frac{x-y}{6} = 1 \end{cases}$$

$$606. \begin{cases} 3x - y = 7 \\ 2x + 3y = 1 \end{cases}$$

$$607. \begin{cases} 3(x-1) = y+5 \\ 5(y-1) = 3(x+5) \end{cases}$$

$$608. \begin{cases} 3x - y = 4 \\ 2x - 3y = -2 \end{cases}$$

$$609. \begin{cases} 3(x+2) + (y-1) = 4 \\ 6(x+2) + y = 2 \end{cases}$$

$$610. \begin{cases} x + \frac{y}{4} = 9 \\ \frac{1}{5}x + y = 17 \end{cases}$$

$$611. \begin{cases} \frac{x}{2} + \frac{y+1}{3} = 3 \\ 3x - 2y = 8 \end{cases}$$

$$612. \begin{cases} 3x - 2y = 4 \\ 2x + 3y = 7 \end{cases}$$

$$613. \begin{cases} 3(x-1) = y+5 \\ 5(y-1) = 3(x+5) \end{cases}$$

$$614. \begin{cases} 3x - 6y = 11 \\ 2x + 3y = 5 \end{cases}$$

$$615. \begin{cases} 5x - 3y = 16 \\ 3x - 5y = 0 \end{cases}$$

$$616. \begin{cases} 5(x+y) - 3(x-y) = 16 \\ 3(x+y) - 5(x-y) = 0 \end{cases}$$

$$617. \begin{cases} 2x + 3y = 12 \\ 3x + 4y = 17 \end{cases}$$

$$618. \begin{cases} 3x + y = 8 \\ 2x - 3y = -2 \end{cases}$$

$$619. \begin{cases} 2x + 5y = 25 \\ 4x + 3y = 15 \end{cases}$$

$$620. \begin{cases} \frac{x+1}{5} = \frac{y-3}{2} \\ 3x + 4y = 32 \end{cases}$$

$$621. \begin{cases} 3x - \frac{1}{2}y = 1 \\ 2x + y = 2 \end{cases}$$

$$622. 2x - 5 \leq 2\left(\frac{x}{2} - 3\right)$$

$$623. 3(x-2) + 2 < 5x$$

$$624. x - 4 \leq \frac{4x - 10}{3}$$

$$625. \frac{x}{3} - \frac{3x-1}{6} \leq 1$$

$$626. \frac{x+4}{3} - \frac{3x-1}{2} > 1$$

$$627. \frac{x-1}{2} - \frac{x+4}{3} > -2$$





628. $\frac{7x + 5}{7} - 2 > 2(x + 1)$

629. $x > 4 - \frac{x + 2}{2}$

630. $4(3x - 1) < 5(2x + 1)$

631. $3x - 2(1 + 2x) \geq 1$

632. $3(x - 2) \leq 2x - 10$

633. $\frac{x - 1}{3} < \frac{x + 1}{4} - 2$

634. $\frac{1}{3}x - 2(x - 2) \geq 4$

635. $\frac{1 - 2x}{3} > x + 2$

636. $\frac{3(x + 1)}{8} - 1 > \frac{x - 5}{2} - x$

637. $\frac{3x + 1}{2} - 2 \geq \frac{3x - 2}{10} - \frac{2x + 3}{5}$

638. $\frac{2x - 1}{3} - \frac{3x - 1}{2} \geq \frac{5}{12}$

639. $4(x + 3) - \frac{7}{2} < 2(2 - x) - (x - \frac{7}{2})$

640. $\frac{x + 5}{4} - \frac{2x + 3}{6} \geq 1$

641. $\frac{3x - 2}{2} - 2 \geq \frac{x + 2}{10} - \frac{2x + 3}{5}$

642. $5x - 12 < 2(4x - 3)$

643. $\frac{x}{2} - \frac{x - 1}{3} \geq 1$

$$644. \frac{2+x}{4} \geq \frac{2x-1}{3}$$

$$645. \frac{x-2}{2} - (x-1) < 2$$

$$646. 2(2x+1) - 2(1+x) \geq x+3$$

$$647. \frac{x}{3} + 1 > 3 - \frac{x-1}{2}$$

$$648. 10 - 4(x-3) \leq 2(x-1)$$

$$649. 2(x-2) + 3 \geq 3x$$

$$650. \frac{x}{5} > 3 + \frac{x-2}{2}$$

$$651. 3(x+2) - 7 < 5(x-1) - 8$$

$$652. \frac{x-1}{2} - \frac{x}{4} \leq -1$$

$$653. 10(x-3) - 4 < 2(x+1)$$

$$654. \frac{x}{5} - 3(x-2) > 4$$

$$655. \frac{1+2x}{3} > \frac{x}{2} - 1$$

$$656. 1 - \frac{1-x}{3} > 2x$$

$$657. 1 - \frac{3}{4}(x-1) < 0.5$$

$$658. \frac{x+1}{2} - \frac{2x-1}{3} > 2$$

$$659. \frac{1-3x}{4} < 1-x$$





$$660. 3x - \frac{x+2}{4} > \frac{2x-5}{6}$$

$$661. 1 + \frac{x}{3} > 5 - \frac{x-2}{2}$$

$$662. 3(x+2) < 4(x-1) + 7$$

$$663. \frac{x+4}{3} - \frac{x-1}{2} > 1$$

$$664. \frac{4}{3}x - 2 > \frac{6-2x}{3}$$

$$665. \frac{1}{3}(1-2x) > \frac{3(2x-1)}{2}$$

$$666. 10 - \frac{2}{3}(x-2) < \frac{1}{2}(x-1)$$

$$667. \frac{x-3}{2} + 3 > x + 1$$

$$668. 3(x-2) < 8 - 4x$$

$$669. \frac{x+2}{5} - \frac{x-1}{4} > 0$$

$$670. x - \frac{x+2}{2} < \frac{2-x}{3}$$

$$671. 3 - 5x > x - 2(2x-1)$$

$$672. \frac{3x-2}{4} > 2.5 - \frac{x}{2}$$

$$673. \frac{x-1}{6} - \frac{x+1}{3} > 1$$

$$674. 9 - 4(x-5) > 7(x+1)$$

$$675. x - \frac{x-1}{3} > \frac{2x+3}{2} + \frac{x}{3} - 1$$

$$676. 2(x + \frac{1}{2} - 4) < -x + 9$$

$$677. x - 3(x - 2) > 4$$

$$678. \frac{x}{3} + 1 > 3 - \frac{x - 1}{2}$$

$$679. \frac{x - 1}{3} - \frac{x + 4}{2} > -2$$

$$680. \frac{3x + 14}{4} > 2x - 9$$

$$681. \frac{x + 1}{6} < \frac{2x - 5}{4} + 1$$

$$682. \frac{x - 3}{2} < \frac{2x - 5}{3}$$

$$683. 2x - 3 < \frac{7x + 3}{2}$$

$$684. \frac{4x - 1.5}{0.5} - \frac{5x - 0.8}{0.2} < \frac{1.2 - x}{0.1}$$

$$685. \frac{3(x + 1)}{8} < 1 - \frac{x - 1}{4}$$

$$686. \frac{x + 1}{3} > x - \frac{x - 1}{2}$$

$$687. \frac{x + 1}{2} < \frac{2x - 1}{3} + 1$$

$$688. \frac{x - 2}{2} < 7 - \frac{3}{2}x$$

$$689. \frac{2x - 3}{4} - \frac{x - 2}{3} > 2$$

$$690. \frac{x - 1}{3} - \frac{x + 4}{2} > -2$$



$$691. \frac{x-1}{3} \leq \frac{2x+1}{4} - 1$$

$$692. \frac{1}{5}x > 4 - \frac{1}{3}(x-2)$$

$$693. \frac{7-2x}{3} + 3 > \frac{3x+8}{4} - x$$

$$694. \frac{2x-2}{3} - 4 > -\frac{x+4}{2}$$

$$695. 2x - 3 < \frac{7x+3}{2}$$

$$696. 5 - \frac{3x-1}{4} < \frac{x+1}{2}$$

$$697. \begin{cases} 1 - 2(x-1) > x \\ \frac{x-1}{3} \leq \frac{x+1}{4} - 1 \end{cases}$$

$$698. \begin{cases} 2x - 3 < 6 - x \\ 1 - 4x \leq 5x - 2 \end{cases}$$

$$699. \begin{cases} \frac{3x-5}{2} < x - 2 \\ 3(x-1) \geq 2(x-2) \end{cases}$$

$$700. \begin{cases} 1 - \frac{x+1}{3} \geq 0 \\ 3 - 4(x-1) < 1 \end{cases}$$

$$701. \begin{cases} \frac{1+x}{2} > \frac{x+2}{3} \\ 5 - (x-3) \geq x \end{cases}$$

$$702. \begin{cases} 3x + 4 \geq x \\ \frac{-x+3}{2} > 1 \end{cases}$$

$$703. \begin{cases} 2x + 7 > 3x - 1 \\ \frac{x - 2}{5} \geq 0 \end{cases}$$

$$704. \begin{cases} 2x > x + 2 \\ x + 8 > 4x - 1 \end{cases}$$

$$705. \begin{cases} 3(x + 2) < x + 8 \\ \frac{x}{2} \leq \frac{x - 1}{3} \end{cases}$$

$$706. \begin{cases} 1 - 2(x - 1) > 1 \\ \frac{x}{2} - \frac{1}{3} \geq x \end{cases}$$

$$707. \begin{cases} x - 7 > 4x + 2 \\ 5 - 2x < 15 - 4x \end{cases}$$

$$708. \begin{cases} 3(x + 2) - 8 \leq 4x \\ \frac{2x + 1}{3} - \frac{x - 1}{6} < 1 \end{cases}$$

$$709. \begin{cases} 5x - 2 > 3(x + 1) \\ \frac{1}{2}x - 1 \leq 7 - \frac{3}{2}x \end{cases}$$

$$710. \begin{cases} \frac{x + 2}{3} > \frac{x + 6}{5} \\ 1 + \frac{x}{3} \geq 5 - \frac{x - 2}{2} \end{cases}$$

$$711. \begin{cases} \frac{x - 3}{2} + 3 > x + 1 \\ 3(x - 2) \leq 8 - 4x \end{cases}$$

$$712. \begin{cases} -3(x - 2) \geq 4 - x \\ \frac{2x - 5}{3} < x - 1 \end{cases}$$

$$713. \begin{cases} 3x - 1 \leq x - 2 \\ -3x + 4 > x - 2 \end{cases}$$



$$714. \begin{cases} 2x - 7 < 3(x-1) \\ \frac{4}{3}x + 3 \geq 1 - \frac{2}{3}x \end{cases}$$

$$715. \begin{cases} 2(x+5) > 6 \\ 3 - 2x > 1 + 2x \end{cases}$$

$$716. \begin{cases} 3x + 1 \geq 2(x-1) \\ 2(x+1) > 4x \end{cases}$$

$$717. \begin{cases} x - 3(x-2) \leq 4 \\ \frac{1-2x}{4} > 4 \end{cases}$$

$$718. \begin{cases} 5x - 1 < 3(x+1) \\ \frac{2x-1}{3} - \frac{5x+1}{2} \leq 1 \end{cases}$$

$$719. \begin{cases} x - 3(x-2) \geq 4 \\ \frac{1+2x}{3} > x-1 \end{cases}$$

$$720. \begin{cases} 3(x+2) < x+8 \\ \frac{x}{2} \leq \frac{x-1}{3} \end{cases}$$

$$721. \begin{cases} 2x - 3 < 9 \\ -\frac{3}{2}x - 1 \leq 2 \end{cases}$$

$$722. \begin{cases} x + 2(x-1) \leq 4 \\ \frac{1+4x}{3} > x-1 \end{cases}$$

$$723. \begin{cases} x - 5 > 1 + 2x \\ 3x + 2 < 4x \end{cases}$$

$$724. \begin{cases} 3x - 1 > 2x + 1 \\ 2x > 8 \end{cases}$$

$$725. \begin{cases} \frac{2x-1}{3} - \frac{5x+1}{2} \leq 1 \\ 5x - 1 < 3(x+1) \end{cases}$$

$$726. \begin{cases} 2x - 6 < 3x \\ \frac{x+2}{5} - \frac{x-1}{4} \geq 0 \end{cases}$$

$$727. \begin{cases} 2x - 7 < 3(x-1) \\ \frac{4}{3}x + 3 \geq 1 - \frac{2}{3}x \end{cases}$$

$$728. \begin{cases} 2(x+5) > 6 \\ 3 - 2x > 1 + 2x \end{cases}$$

$$729. \begin{cases} x - 3(x-2) \leq 4 \\ \frac{1-2x}{4} > 4 \end{cases}$$

$$730. \begin{cases} 5x - 1 < 3(x+1) \\ \frac{2x-1}{3} - \frac{5x+1}{2} \leq 1 \end{cases}$$

$$731. \begin{cases} x - 3(x-3) \geq 4 \\ \frac{1+2x}{3} > x-1 \end{cases}$$

$$732. \begin{cases} x - 2 < 0 \\ 2(x-1) + 3 \geq 3x \end{cases}$$

$$733. \begin{cases} 3(x+2) < x+8 \\ \frac{x}{2} \leq \frac{x-1}{3} \end{cases}$$

$$734. \begin{cases} x + 2(x-1) \leq 4 \\ \frac{1+4x}{3} > x-1 \end{cases}$$

$$735. \begin{cases} \frac{2x-1}{3} - \frac{5x+1}{2} \leq 1 \\ 5x - 1 < 3(x+1) \end{cases}$$

$$736. \begin{cases} 2(x-3) < 3x-7 \\ \frac{1}{2}x - 1 > 3 - \frac{3}{2}x \end{cases}$$



$$737. \begin{cases} 2(x+3) \leq 3 - 5(x-2) \\ \frac{x+1}{3} - \frac{2x+1}{2} < 1 \end{cases}$$

$$738. \begin{cases} 3(x-3) < x-15 \\ \frac{x-1}{2} > \frac{7x+2}{5} \end{cases}$$

$$739. \begin{cases} \frac{3+x}{2} > \frac{2x-1}{3} \\ 5 - 2(x-3) \leq x-1 \end{cases}$$

$$740. \begin{cases} 3x - 1 \geq x - 2 \\ -3x + 4 > x - 2 \end{cases}$$

$$741. \begin{cases} 1 + 3x \leq -2(1 - 2x) \\ \frac{x}{2} - \frac{0.1x + 0.8}{0.6} < 1 - \frac{x+1}{3} \end{cases}$$

$$742. \begin{cases} 2(x+3) \leq 3 - 5(x-2) \\ \frac{2x+1}{3} - \frac{2x+1}{2} < 1 \end{cases}$$

$$743. \begin{cases} 3x - 1 \geq 5(x-1) \\ \frac{2}{3}x - 1 < \frac{3x+1}{2} \end{cases}$$

$$744. \begin{cases} 2x - 7 < 3(x-1) \\ \frac{4}{3}x + 3 \geq 1 - \frac{2}{3}x \end{cases}$$

$$745. \begin{cases} 2x - 1 \geq \frac{x}{2} - (x+1) \\ \frac{3-2x}{3} < 1.5 - \frac{x}{2} \end{cases}$$

$$746. \begin{cases} \frac{1+2x}{3} > x-1 \\ 4(x-1) < 3x-4 \end{cases}$$

1. $-\frac{4}{5}$

2. $-\frac{85}{84}$

3. $-\frac{599}{105}$

4. 6

5. 0.4

6. $\frac{14}{27}$

7. -10

8. 25

9. 9

10. -13.34

11. -2

12. $-\frac{27}{4}$

13. 31.5

14. 4

15. 175

16. 25

17. $\frac{12}{7}$

18. 31

19. 83

20. 4.7

21. $\frac{3}{50}$

22. $\frac{14}{3}$

23. -4.22

24. -2

25. $-\frac{7}{6}$

26. 503

27. -63

28. $-15\frac{1}{11}$

29. $4\frac{1}{110}$

30. $11\frac{2}{3}$

31. 154000

32. $-\frac{5}{6}$

33. $11\frac{7}{8}$

34. $4\frac{10}{13}$

35. $\frac{45}{4}$

36. -25

37. -11

38. -1

39. $\frac{13}{6}$

40. -52

41. 0

42. -6

43. $\frac{1}{6}$

44. 92

45. $\frac{4}{3}$

46. -2^{2002}

47. $-\frac{1}{4}$

48. $-6\frac{1}{2}$

49. $-57\frac{1}{2}$

50. -4

51. 0

52. 4

53. -20

54. -30

55. $4\frac{2}{3}$

56. -7

57. -1060

58. $-\frac{1}{2}$

59. 10

60. -27

61. $\frac{1}{6}$

62. $-\frac{1}{2}$

63. $-\frac{81}{16}$

64. $\frac{1}{8}$

65. $-\frac{53}{20}$

66. -261

67. 1

68. -81

69. $\frac{23}{96}$

70. -4

71. $-\frac{5}{2}$

72. -51

73. $2\frac{11}{25}$

74. $\frac{99}{100}$

75. $-\frac{1}{2}$

76. -8

77. 13

78. $24\frac{1}{5}$

79. 2

80. 45

81. $28\frac{1}{4}$

82. 27

83. 5

84. $\frac{5}{2}$

85. -7

86. -1

87. $4\frac{5}{8}$

88. -6

89. -8

90. $-\frac{3}{2}$

91. 41

92. -25

93. 2

94. 100

95. -6

96. -250

97. $\frac{2}{9}$

98. 5.03

99. 0

100. -899.5

101. 1.995

102. -40

103. 35.3

104. $-\frac{64}{45}$

105. -199.5

106. $-15\frac{1}{6}$

107. 1245

108. $-2004\frac{2004}{2005}$

109. -4

110. $\frac{8}{3}$

111. $-\frac{1}{3}$

112. $\frac{1}{7}$

113. $\frac{5}{4}$

114. $-\frac{25}{243}$

115. $-\frac{1}{4}$

116. $-\frac{2}{15}$

117. $\frac{16}{15}$

118. -5

119. 49



120. $-\frac{8}{5}$

121. $-\frac{42}{25}$

122. $-\frac{3}{8}$

123. 6

124. 0

125. 64

126. $-\frac{5}{24}$

127. -486

128. 0.85

129. $-\frac{27}{16}$

130. -29

131. $-\frac{61}{18}$

132. $-\frac{27}{2}$

133. 3

134. -1

135. $\frac{44}{15}$

136. $-\frac{39}{20}$

137. -80

138. -7

139. $\frac{1}{5}$

140. $\frac{7}{3}$



141. $-\frac{14}{9}$

142. $-\frac{1}{3}$

143. 260

144. 2580

145. $-2007\frac{2007}{2008}$

146. -2676

147. $-\frac{2}{3}$

148. 3

149. 0

150. 3. 36

151. $-\frac{1}{7}$

152. 7

153. $3\frac{3}{4}$

154. $57\frac{3}{5}$

155. $-\frac{14}{15}$

156. $2\frac{29}{36}$

157. -0. 4

158. $-6\frac{3}{4}$

159. $-10\frac{1}{3}$

160. -43. 6

161. -94

162. $-11\frac{1}{3}$

163. 1

164. 24.5

165. $45\frac{7}{50}$

166. -772

167. $3\frac{31}{148}$

168. $-6\frac{2}{3}$

169. $\frac{1}{4}$

170. $-1\frac{3}{5}$

171. 0

172. $-26\frac{1}{3}$

173. $-3\frac{5}{6}$

174. $-\frac{1}{2}$

175. $\frac{15}{2}$

176. $\frac{1}{4}$

177. -2

178. -1

179. 0

180. -4.48

181. 261

182. -10.08

183. 3.47

184. -8.75

185. $\frac{1}{4}$

186. 46

187. $\frac{3}{5}$

188. 1

189. $\frac{13}{12}$

190. $11\frac{1}{6}$

191. -90

192. -18

193. $-\frac{1}{5}$

194. 0

195. -23

196. $4\frac{5}{8}$

197. $3\frac{1}{15}$

198. -8

199. -45

200. -28

201. $\frac{9}{7}$

202. -6

203. $\frac{12}{7}$

204. $-\frac{1}{7}$

205. -25

206. 31.3

207. -120

208. $-\frac{1}{12}$

209. $-\frac{7}{6}$

210. 9

211. $\frac{9}{16}$

212. $\frac{1}{6}$

213. 1

214. $-20\frac{13}{25}$

215. 0

216. -90

217. $-\frac{3}{4}$

218. 12

219. $\frac{3}{2}$

220. -85

221. $-2\frac{1}{2}$

222. 8

223. 22

224. $\frac{9}{16}$

225. $\frac{125}{64}$

226. 31

227. 0

228. $5\frac{1}{5}$

229. -20

230. -2

231. $-\frac{7}{6}$

232. -10

233. -11

234. -4

235. -14

236. 12

237. $-7\frac{1}{2}$

238. $\frac{35}{12}$

239. $-\frac{4}{3}$

240. 7

241. $\frac{17}{2}$

242. -24

243. -50

244. $-\frac{1}{2}$

245. -11.04

246. -7

247. -5

248. -10

249. -1060

250. $-8\frac{1}{3}$

251. -1

252. 6

253. $\frac{14}{27}$

254. 13

255. $-8\frac{8}{9}$

256. -2

257. 0

258. 14

259. -85

260. $-17\frac{1}{5}$

261. $-\frac{3}{4}$

262. $-\frac{3}{2}$

263. $-6\frac{3}{4}$

264. 4

265. 25

266. $-\frac{1}{6}$

267. $-2\frac{1}{2}$

268. $-\frac{169}{196}$

269. -58

270. -90

271. $-\frac{56}{15}$

272. 31

273. 24

274. $\frac{125}{64}$

275. $\frac{3}{50}$

276. 31

277. 4

278. $-72\frac{8}{27}$

279. 24

280. 25

281. -16

282. $2\frac{1}{5}$

283. -85

284. -11

285. -10

286. 22

287. $-\frac{108}{7}$

288. -342

289. $-\frac{1}{5}$

290. 0

291. 0

292. 0

293. 9992

294. $\frac{16}{3}$

295. $\frac{1}{8}$

296. $-2\frac{1}{2}$

297. 0

298. 30.3

299. 2

300. 20



301. -43

302. 11

303. -1.03

304. 8

305. -50

306. -8.5

307. -66

308. $-\frac{1}{3}$

309. -35

310. 6

311. $\frac{999}{1999}$

312. $4\frac{5}{8}$

313. $3\frac{1}{15}$

314. -8

315. -45

316. -28

317. $\frac{9}{7}$

318. 31.3

319. -120

320. -90

321. $-\frac{3}{4}$

322. $-\frac{1}{12}$

323. $\frac{5}{6}$

324. 9

325. $\frac{9}{16}$

326. $\frac{1}{6}$

327. $-20\frac{13}{25}$

328. 0

329. $-\frac{29}{6}$

330. -8.5

331. $\frac{3}{4}$

332. 1

333. 7

334. -3

335. -7

336. 0

337. $\frac{7}{16}$

338. 0

339. -8

340. $-4\frac{1}{3}$

341. $-41\frac{4}{9}$

342. $-3\frac{1}{2}$

343. -9

344. $\frac{1}{8}$

345. $\frac{2}{25}$

346. -38.1

347. -1.5

348. $-\frac{1}{600}$

349. -0.3

350. $-\frac{20}{3}$

351. $-85\frac{1}{6}$ 

352. $\frac{1}{6}$

353. -6

354. $2\frac{11}{25}$

355. $\frac{334}{3}$

356. -1.02

357. $4\frac{2}{3}$

358. -2

359. -1

360. 10

361. -9.76

362. $-\frac{88}{315}$

363. 0

364. $-\frac{5}{7}$

365. $1331999\frac{2}{3}$

366. 111

367. 16

368. 5

369. $3\frac{1}{4}$

370. $-\frac{11}{9}$

371. $\frac{1}{2}$

372. $-56\frac{1}{58}$

373. $\frac{44}{43}$

374. -104.727 

375. -900

376. 199000

377. 0

378. 1

379. 0

380. $2\frac{5}{12}$

381. $\frac{5}{204}$ 

382. -1

383. $-\frac{25}{36}$

384. $\frac{189}{8}$

385. $\frac{3^{2007}-3}{2}$

386. 0

387. 3897326

388. $\frac{11}{20}$

389. $\frac{200}{101}$

390. -2



391. 2475

392. $-\frac{5}{4}$

393. -48

394. $-\frac{2}{25}$

395. $-125\frac{3}{16}$

396. -2

397. 0

398. $\frac{125}{3}$

399. 0

400. $-\frac{3}{8}$



401. 25	402. 9. 5	403. 30
404. 13	405. 9	406. -17
407. $\frac{29}{24}$	408. $-2\frac{1}{3}$	409. $-\frac{2}{3}$
410. -10	411. -5	412. $-13\frac{1}{2}$
413. $-17\frac{1}{5}$	414. $\frac{5}{2}$	415. $\frac{17}{4}$
416. -9	417. $-\frac{1}{2}$	418. 1
419. $-1\frac{1}{8}$	420. -58	421. 36
422. $\frac{19}{49}$	423. $-32. 8$	424. $-\frac{1}{6}$
425. -34	426. -50	427. 30
428. -1	429. 14. 5	430. $-\frac{85}{11}$
431. $72\frac{13}{44}$	432. $\frac{1}{8}$	433. $-\frac{5}{4}$
434. $-\frac{59}{6}$	435. 3	436. -8
437. 1	438. -24	439. $\frac{502}{1005}$
440. $\frac{999}{2009}$	441. $\frac{76}{7}$	442. $\frac{5}{6}$
443. $\frac{1}{12}$	444. $\frac{7}{15}$	445. $\frac{200}{101}$
446. $\frac{50}{101}$	447. 12	448. $15\frac{21}{32}$



449. $\frac{1}{2}$

450. $28\frac{4}{9}$

451. $\frac{2}{5}$

$$\begin{aligned}
 452. \text{ 原式} &= 1 + \frac{1}{1+2} + \frac{1}{1+2+3} + \frac{1}{1+2+3+4} + \cdots + \frac{1}{1+2+3+4+5+6+7} \\
 &= 1 + \frac{2}{2 \times 3} + \frac{2}{3 \times 4} + \cdots + \frac{2}{7 \times 8} \\
 &= 2 \left(\frac{1}{2} + \frac{1}{2} - \frac{1}{3} + \frac{1}{3} - \frac{1}{4} + \cdots + \frac{1}{7} - \frac{1}{8} \right) \\
 &= 2 \times \left(1 - \frac{1}{8} \right) = \frac{7}{4}
 \end{aligned}$$

$$453. \frac{1}{10}$$

$$\begin{aligned}
 454. \text{ 原式} &= \frac{1}{2 \times 5} + \frac{1}{5 \times 8} + \frac{1}{8 \times 11} + \frac{1}{11 \times 14} + \frac{1}{14 \times 17} \\
 &= \frac{1}{3} \times \left(\frac{1}{2} - \frac{1}{5} + \frac{1}{5} - \frac{1}{8} + \frac{1}{8} - \frac{1}{11} + \frac{1}{11} - \frac{1}{14} + \frac{1}{14} - \frac{1}{17} \right) \\
 &= \frac{1}{3} \times \left(\frac{1}{2} - \frac{1}{17} \right) = \frac{5}{34}
 \end{aligned}$$

$$\begin{aligned}
 455. \text{ 原式} &= \frac{1}{4} \left[\left(\frac{1}{1 \times 3} - \frac{1}{3 \times 5} \right) + \left(\frac{1}{3 \times 5} - \frac{1}{5 \times 7} \right) + \cdots + \left(\frac{1}{2001 \times 2003} - \frac{1}{2003 \times 2005} \right) \right] \\
 &= \frac{1}{4} \times \left(\frac{1}{1 \times 3} - \frac{1}{2003 \times 2005} \right) = \frac{1004003}{12048045}
 \end{aligned}$$

$$\begin{aligned}
 456. \text{ 原式} &= \frac{\frac{7}{18} \times \frac{9}{2} + \frac{16-1}{90}}{13\frac{1}{3} - 3 \times 1.25 \times 4 \times 0.8} \times \left(\frac{1}{1 \times 3} + \frac{1}{3 \times 5} + \frac{1}{5 \times 7} + \frac{1}{7 \times 9} \right) \\
 &= \frac{\frac{7}{4} + \frac{1}{6}}{13\frac{1}{3} - 12} \times \frac{1}{2} \times \left(1 - \frac{1}{3} + \frac{1}{3} - \frac{1}{5} + \cdots + \frac{1}{7} - \frac{1}{9} \right) \\
 &= \frac{46}{24} \times \frac{3}{4} \times \frac{1}{2} \times \frac{8}{9} = \frac{23}{36}
 \end{aligned}$$

$$\begin{aligned}
 457. \text{ 原式} &= (1+2+3+\cdots+20) + \left(\frac{1}{2} + \frac{1}{6} + \frac{1}{12} + \frac{1}{20} + \cdots + \frac{1}{420} \right) \\
 &= 210 + \frac{1}{1 \times 2} + \frac{1}{2 \times 3} + \frac{1}{3 \times 4} + \frac{1}{4 \times 5} + \cdots + \frac{1}{20 \times 21} \\
 &= 210 + 1 - \frac{1}{2} + \frac{1}{2} - \frac{1}{3} + \frac{1}{3} - \frac{1}{4} + \cdots + \frac{1}{20} - \frac{1}{21} \\
 &= 210 + 1 - \frac{1}{21} = 210\frac{20}{21}
 \end{aligned}$$

$$\begin{aligned}
 458. \text{ 原式} &= 2008 + 2009 + 2010 + 2011 + 2012 + \frac{1}{3 \times 6} + \frac{1}{6 \times 9} + \frac{1}{9 \times 12} + \frac{1}{12 \times 15} + \frac{1}{15 \times 18} \\
 &= 2010 \times 5 + \frac{1}{9} \times \left(\frac{1}{1} - \frac{1}{2} + \frac{1}{2} - \frac{1}{3} + \cdots + \frac{1}{5} - \frac{1}{6} \right) \\
 &= 10050\frac{5}{54}
 \end{aligned}$$

$$459. \text{ 原式} = \frac{1}{2} + \frac{3-2}{6} + \frac{5-3}{15} + \frac{7-5}{35} + \frac{11-7}{77}$$

$$= \frac{1}{2} + \frac{1}{2} - \frac{1}{3} + \frac{1}{3} - \frac{1}{5} + \frac{1}{5} - \frac{1}{7} + \frac{1}{7} - \frac{1}{11}$$

$$= 1 - \frac{1}{11} = \frac{10}{11}$$

$$460. \text{原式} = \frac{1}{1 \times 3} + \frac{1}{3 \times 5} + \frac{1}{5 \times 7} + \frac{1}{7 \times 9} + \frac{1}{9 \times 11} + \frac{1}{11 \times 13} + \frac{1}{13 \times 15}$$

$$= \frac{1}{2} \times \left(\frac{1}{1} - \frac{1}{3} \right) + \frac{1}{2} \times \left(\frac{1}{3} - \frac{1}{5} \right) + \cdots + \frac{1}{2} \times \left(\frac{1}{13} - \frac{1}{15} \right)$$

$$= \frac{1}{2} \times \left(\frac{1}{1} - \frac{1}{15} \right) = \frac{7}{15}$$

$$461. \text{原式} = \left(1 - \frac{1}{2} \right) + \left(1 - \frac{1}{6} \right) + \left(1 - \frac{1}{12} \right) + \cdots + \left(1 - \frac{1}{9900} \right)$$

$$= 99 - \left(\frac{1}{1 \times 2} + \frac{1}{2 \times 3} + \cdots + \frac{1}{99 \times 100} \right)$$

$$= 99 - \left(1 - \frac{1}{2} + \frac{1}{2} - \frac{1}{3} + \cdots + \frac{1}{99} - \frac{1}{100} \right)$$

$$= 99 - \left(1 - \frac{1}{100} \right)$$

$$= 98 \frac{1}{100}$$

$$462. \text{原式} = \frac{1}{2} \times \left[\left(\frac{1}{1 \times 2} - \frac{1}{2 \times 3} \right) + \left(\frac{1}{2 \times 3} - \frac{1}{3 \times 4} \right) + \cdots + \left(\frac{1}{6 \times 7} - \frac{1}{7 \times 8} \right) + \left(\frac{1}{7 \times 8} - \frac{1}{8 \times 9} \right) \right]$$

$$= \frac{1}{2} \times \left(\frac{1}{1 \times 2} - \frac{1}{8 \times 9} \right)$$

$$= \frac{35}{144}$$

$$463. \frac{4949}{19800}$$

$$464. \frac{38625}{340032}$$

$$465. \frac{3200}{9603}$$

$$466. \text{原式} = \frac{100}{1 \times 2 \times 3} + \frac{100}{2 \times 3 \times 4} + \frac{100}{3 \times 4 \times 5} + \cdots + \frac{100}{99 \times 100 \times 101} - \left(\frac{1}{2 \times 3} + \frac{1}{3 \times 4} + \cdots + \frac{1}{100 \times 101} \right)$$

$$= 100 \times \frac{1}{2} \times \left(\frac{1}{2} - \frac{1}{10100} \right) - \left(\frac{1}{2} - \frac{1}{101} \right) = 24 \frac{51}{101}$$

$$467. \text{原式} = \frac{1}{3} \times \left(\frac{1}{1 \times 2 \times 3} - \frac{1}{2 \times 3 \times 4} + \frac{1}{2 \times 3 \times 4} - \frac{1}{3 \times 4 \times 5} + \cdots + \frac{1}{7 \times 8 \times 9} - \frac{1}{8 \times 9 \times 10} \right)$$

$$= \frac{1}{3} \times \left(\frac{1}{1 \times 2 \times 3} - \frac{1}{8 \times 9 \times 10} \right) = \frac{119}{2160}$$

$$468. \text{原式} = 3 \times \left[\frac{1}{3} \times \left(\frac{1}{1 \times 2 \times 3} - \frac{1}{2 \times 3 \times 4} + \frac{1}{2 \times 3 \times 4} - \frac{1}{3 \times 4 \times 5} + \cdots + \frac{1}{17 \times 18 \times 19} - \frac{1}{18 \times 19 \times 20} \right) \right]$$

$$= \frac{1}{1 \times 2 \times 3} - \frac{1}{18 \times 19 \times 20} = \frac{3 \times 19 \times 20 - 1}{18 \times 19 \times 20} = \frac{1139}{6840}$$

$$469. \text{原式} = \frac{3+2}{1 \times 2 \times 3} + \frac{3+4}{2 \times 3 \times 4} + \cdots + \frac{3+16}{8 \times 9 \times 10}$$

$$\begin{aligned}
&= 3 \times \left(\frac{1}{1 \times 2 \times 3} + \frac{1}{2 \times 3 \times 4} + \cdots + \frac{1}{8 \times 9 \times 10} \right) + 2 \times \left(\frac{1}{1 \times 2 \times 3} + \frac{2}{2 \times 3 \times 4} + \cdots + \frac{8}{8 \times 9 \times 10} \right) \\
&= 3 \times \frac{1}{2} \times \left(\frac{1}{1 \times 2} - \frac{1}{2 \times 3} + \frac{1}{2 \times 3} - \frac{1}{3 \times 4} + \cdots + \frac{1}{8 \times 9} - \frac{1}{9 \times 10} \right) + 2 \times \left(\frac{1}{2 \times 3} + \frac{1}{3 \times 4} + \cdots + \frac{1}{9 \times 10} \right) \\
&= \frac{3}{2} \times \left(\frac{1}{1 \times 2} - \frac{1}{9 \times 10} \right) + 2 \times \left(\frac{1}{2} - \frac{1}{3} + \frac{1}{3} - \frac{1}{4} + \cdots + \frac{1}{9} - \frac{1}{10} \right) \\
&= \frac{3}{2} \times \left(\frac{1}{2} - \frac{1}{90} \right) + 2 \times \left(\frac{1}{2} - \frac{1}{10} \right) = \frac{7}{4} - \frac{1}{60} - \frac{1}{5} = \frac{23}{15}
\end{aligned}$$

$$\begin{aligned}
470. \quad & \frac{5}{2 \times 3 \times 4} + \frac{7}{3 \times 4 \times 5} + \cdots + \frac{17}{8 \times 9 \times 10} + \frac{19}{9 \times 10 \times 11} \\
&= \frac{2+3}{2 \times 3 \times 4} + \frac{3+4}{3 \times 4 \times 5} + \cdots + \frac{9+10}{9 \times 10 \times 11} \\
&= \frac{1}{3 \times 4} + \frac{1}{2 \times 4} + \frac{1}{4 \times 5} + \frac{1}{3 \times 5} + \cdots + \frac{1}{10 \times 11} + \frac{1}{9 \times 11} \\
&= \left(\frac{1}{3 \times 4} + \frac{1}{4 \times 5} + \cdots + \frac{1}{10 \times 11} \right) + \left(\frac{1}{2 \times 4} + \frac{1}{3 \times 5} + \cdots + \frac{1}{9 \times 11} \right) \\
&= \left(\frac{1}{3} - \frac{1}{4} + \frac{1}{4} - \frac{1}{5} + \cdots + \frac{1}{10} - \frac{1}{11} \right) + \frac{1}{2} \times \left(\frac{1}{2} - \frac{1}{4} + \frac{1}{3} - \frac{1}{5} + \frac{1}{4} - \frac{1}{6} + \cdots + \frac{1}{8} - \frac{1}{10} + \frac{1}{9} - \frac{1}{11} \right) \\
&= \left(\frac{1}{3} - \frac{1}{11} \right) + \frac{1}{2} \times \left(\frac{1}{2} - \frac{1}{10} + \frac{1}{3} - \frac{1}{11} \right) = \frac{8}{33} + \frac{1}{2} \times \left(\frac{2}{5} + \frac{8}{33} \right) = \frac{31}{55}
\end{aligned}$$

所以原式 $= 1155 \times \frac{31}{55} = 651$.

$$\begin{aligned}
471. \quad \text{原式} &= \frac{3^2}{1 \times 2 \times 3 \times 4 \times 5} + \frac{4^2}{2 \times 3 \times 4 \times 5 \times 6} + \frac{5^2}{3 \times 4 \times 5 \times 6 \times 7} + \cdots + \frac{12^2}{10 \times 11 \times 12 \times 13 \times 14} \\
&= \frac{1 \times 5 + 4}{1 \times 2 \times 3 \times 4 \times 5} + \frac{2 \times 6 + 4}{2 \times 3 \times 4 \times 5 \times 6} + \frac{3 \times 7 + 4}{3 \times 4 \times 5 \times 6 \times 7} + \cdots + \frac{10 \times 14 + 4}{10 \times 11 \times 12 \times 13 \times 14} \\
&= \left(\frac{1}{2 \times 3 \times 4} + \frac{1}{3 \times 4 \times 5} + \frac{1}{4 \times 5 \times 6} + \cdots + \frac{1}{11 \times 12 \times 13} \right) \\
&\quad + \left(\frac{4}{1 \times 2 \times 3 \times 4 \times 5} + \frac{4}{2 \times 3 \times 4 \times 5 \times 6} + \frac{4}{3 \times 4 \times 5 \times 6 \times 7} + \cdots + \frac{4}{10 \times 11 \times 12 \times 13 \times 14} \right) \\
&= \frac{1}{2} \times \left(\frac{1}{2 \times 3} - \frac{1}{3 \times 4} + \frac{1}{3 \times 4} - \frac{1}{4 \times 5} + \cdots + \frac{1}{11 \times 12} - \frac{1}{12 \times 13} \right) \\
&\quad + \left(\frac{1}{1 \times 2 \times 3 \times 4} - \frac{1}{2 \times 3 \times 4 \times 5} + \frac{1}{2 \times 3 \times 4 \times 5} - \frac{1}{3 \times 4 \times 5 \times 6} + \cdots + \frac{1}{10 \times 11 \times 12 \times 13} - \frac{1}{11 \times 12 \times 13 \times 14} \right) \\
&= \frac{1}{2} \times \left(\frac{1}{2 \times 3} - \frac{1}{12 \times 13} \right) + \left(\frac{1}{1 \times 2 \times 3 \times 4} - \frac{1}{11 \times 12 \times 13 \times 14} \right) \\
&= \frac{1}{12} - \frac{1}{2 \times 12 \times 13} + \frac{1}{24} - \frac{1}{11 \times 12 \times 13 \times 14} = \frac{1}{8} - \frac{77+1}{11 \times 12 \times 13 \times 14} = \frac{1}{8} - \frac{1}{2 \times 11 \times 14} \\
&= \frac{1}{8} - \frac{1}{308} = \frac{75}{616}
\end{aligned}$$

$$\begin{aligned}
472. \quad \text{原式} &= \frac{1}{2} + \frac{2}{2 \times 3} + \frac{3}{2 \times 3 \times 4} + \frac{4}{2 \times 3 \times 4 \times 5} + \cdots + \frac{9}{2 \times 3 \times 4 \cdots \times 10} \\
&= \frac{2-1}{2} + \frac{3-1}{2 \times 3} + \frac{4-1}{2 \times 3 \times 4} + \cdots + \frac{10-1}{2 \times 3 \times 4 \cdots \times 10} \\
&= 1 - \frac{1}{2} + \frac{1}{2} - \frac{1}{2 \times 3} + \frac{1}{2 \times 3} - \frac{1}{2 \times 3 \times 4} + \cdots + \frac{1}{2 \times 3 \times 4 \cdots \times 9} - \frac{1}{2 \times 3 \times 4 \cdots \times 9 \times 10}
\end{aligned}$$

$$\begin{aligned}
&= 1 - \frac{1}{2 \times 3 \times 4 \cdots \times 9 \times 10} = \frac{3628799}{3628800} \\
473. \text{ 原式} &= \frac{1}{1 \times 2} + \frac{3-1}{1 \times 2 \times 3} + \frac{4-1}{1 \times 2 \times 3 \times 4} + \frac{5-1}{1 \times 2 \times 3 \times 4 \times 5} + \frac{6-1}{1 \times 2 \times 3 \times 4 \times 5 \times 6} + \frac{7-1}{1 \times 2 \times 3 \times 4 \times 5 \times 6 \times 7} \\
&= \frac{1}{1 \times 2} + \frac{1}{1 \times 2} - \frac{1}{1 \times 2 \times 3} + \frac{1}{1 \times 2 \times 3} - \frac{1}{1 \times 2 \times 3 \times 4} + \cdots - \frac{1}{1 \times 2 \times 3 \times 4 \times 5 \times 6 \times 7} \\
&= \frac{1}{1 \times 2} + \frac{1}{1 \times 2} - \frac{1}{1 \times 2 \times 3 \times 4 \times 5 \times 6 \times 7} \\
&= 1 - \frac{1}{5040} = \frac{5039}{5040} \\
474. \text{ 原式} &= \frac{2}{1 \times 2 \times 3} + \frac{3}{1 \times 2 \times 3 \times 4} + \cdots + \frac{99}{1 \times 2 \times 3 \times \cdots \times 100} \\
&= \frac{3-1}{1 \times 2 \times 3} + \frac{4-1}{1 \times 2 \times 3 \times 4} + \cdots + \frac{100-1}{1 \times 2 \times 3 \times \cdots \times 100} \\
&= \frac{1}{1 \times 2} - \frac{1}{1 \times 2 \times 3} + \frac{1}{1 \times 2 \times 3} - \frac{1}{1 \times 2 \times 3 \times 4} + \cdots + \frac{1}{1 \times 2 \times 3 \times \cdots \times 99} - \frac{1}{1 \times 2 \times 3 \times \cdots \times 100} \\
&= \frac{1}{1 \times 2} - \frac{1}{1 \times 2 \times 3 \times \cdots \times 100} = \frac{1}{2} - \frac{1}{100!} \\
475. \text{ 原式} &= \frac{2}{1 \times 3} + \frac{3}{3 \times 6} + \frac{4}{6 \times 10} + \frac{5}{10 \times 15} + \cdots + \frac{50}{1225 \times 1275} \\
&= \left(\frac{1}{1} - \frac{1}{3} \right) + \left(\frac{1}{3} - \frac{1}{6} \right) + \left(\frac{1}{6} - \frac{1}{10} \right) + \left(\frac{1}{1225} - \frac{1}{1275} \right) = \frac{1274}{1275} \\
476. \frac{2}{1 \times (1+2)} &= \frac{1}{1} - \frac{1}{1+2}, \quad \frac{3}{(1+2) \times (1+2+3)} = \frac{1}{1+2} - \frac{1}{1+2+3}, \quad \cdots, \\
&\frac{100}{(1+2+\cdots+99) \times (1+2+\cdots+100)} = \frac{1}{1+2+\cdots+99} - \frac{1}{1+2+\cdots+100}, \quad \text{所以} \\
\text{原式} &= 1 - \frac{1}{1+2+\cdots+100} \\
&= 1 - \frac{1}{5050} = \frac{5049}{5050} \\
477. \text{ 原式} &= 1 - \left(\frac{2}{1 \times 3} + \frac{3}{3 \times 6} + \frac{4}{6 \times 10} + \cdots + \frac{10}{45 \times 55} \right) \\
&= 1 - \left(1 - \frac{1}{3} + \frac{1}{3} - \frac{1}{6} + \frac{1}{6} - \frac{1}{10} + \cdots + \frac{1}{45} - \frac{1}{55} \right) \\
&= 1 - \left(1 - \frac{1}{55} \right) = \frac{1}{55} \\
478. \text{ 原式} &= \left(\frac{1}{2 \times 4} \right) + \left(\frac{1}{4 \times 6} \right) + \left(\frac{1}{6 \times 8} \right) + \left(\frac{1}{8 \times 10} \right) + \left(\frac{1}{10 \times 12} \right) + \left(\frac{1}{12 \times 14} \right) \\
&= \left(\frac{1}{2} - \frac{1}{4} + \frac{1}{4} - \frac{1}{6} + \frac{1}{6} - \frac{1}{8} + \frac{1}{8} - \frac{1}{10} + \frac{1}{10} - \frac{1}{12} + \frac{1}{12} - \frac{1}{14} \right) \times \frac{1}{2} \\
&= \left(\frac{1}{2} - \frac{1}{14} \right) \times \frac{1}{2} = \frac{3}{14} \\
479. 1 - \frac{1}{2^2} &= \left(1 - \frac{1}{2} \right) \times \left(1 + \frac{1}{2} \right) = \frac{1}{2} \times \frac{3}{2}, \quad 1 - \frac{1}{3^2} = \left(1 - \frac{1}{3} \right) \times \left(1 + \frac{1}{3} \right) = \frac{2}{3} \times \frac{4}{3}, \quad \cdots \text{所以,} \\
\text{原式} &= \frac{1}{2} \times \frac{3}{2} \times \frac{2}{3} \times \frac{4}{3} \times \cdots \times \frac{48}{49} \times \frac{50}{49} = \frac{1}{2} \times \frac{50}{49} = \frac{25}{49} \\
480. \text{ 原式} &= \frac{2^2 - 1^2}{1^2 \times 2^2} + \frac{3^2 - 2^2}{2^2 \times 3^2} + \frac{4^2 - 3^2}{3^2 \times 4^2} + \cdots + \frac{8^2 - 7^2}{7^2 \times 8^2}
\end{aligned}$$

$$= 1 - \frac{1}{2^2} + \frac{1}{2^2} - \frac{1}{3^2} + \frac{1}{3^2} - \frac{1}{4^2} + \cdots + \frac{1}{7^2} - \frac{1}{8^2}$$

$$= 1 - \frac{1}{8^2} = \frac{63}{64}$$

$$\begin{aligned} 481. \text{ 原式} &= \left(1 + \frac{2}{3^2 - 1}\right) + \left(1 + \frac{2}{5^2 - 1}\right) + \left(1 + \frac{2}{7^2 - 1}\right) + \cdots + \left(1 + \frac{2}{1993^2 - 1}\right) + \left(1 + \frac{2}{1995^2 - 1}\right) \\ &= 997 + \left(\frac{2}{2 \times 4} + \frac{2}{4 \times 6} + \cdots + \frac{2}{1994 \times 1996}\right) \\ &= 997 + \left(\frac{1}{2} - \frac{1}{4} + \frac{1}{4} - \frac{1}{6} + \cdots + \frac{1}{1994} - \frac{1}{1996}\right) \\ &= 997 + \left(\frac{1}{2} - \frac{1}{1996}\right) = 997 \frac{997}{1996} \end{aligned}$$

$$482. \frac{1^2 + 3^2}{2^2 - 1} = \frac{10}{3}, \quad \frac{2^2 + 4^2}{3^2 - 1} = \frac{20}{8}, \quad \frac{3^2 + 5^2}{4^2 - 1} = \frac{34}{15}, \quad \cdots \cdots \text{由于 } \frac{10}{3} = 2\frac{4}{3}, \quad \frac{20}{8} = 2\frac{4}{8}, \quad \frac{34}{15} = 2\frac{4}{15},$$

$$\text{可见原式} = 2\frac{4}{2^2 - 1} + 2\frac{4}{3^2 - 1} + 2\frac{4}{4^2 - 1} + \cdots + 2\frac{4}{99^2 - 1}$$

$$= 2 \times 98 + 4 \times \left(\frac{1}{1 \times 3} + \frac{1}{2 \times 4} + \frac{1}{3 \times 5} + \cdots + \frac{1}{98 \times 100}\right)$$

$$= 196 + 4 \times \frac{1}{2} \times \left(1 - \frac{1}{3} + \frac{1}{2} - \frac{1}{4} + \frac{1}{3} - \frac{1}{5} + \cdots + \frac{1}{98} - \frac{1}{100}\right)$$

$$= 196 + 2 \times \left(1 + \frac{1}{2} - \frac{1}{99} - \frac{1}{100}\right)$$

$$= 196 + 3 - 2 \times \frac{199}{9900}$$

$$= 198 \frac{4751}{4950}$$

$$483. \text{ 原式} = \frac{1}{4} \times \left(\frac{2^2}{2^2 - 1} + \frac{4^2}{4^2 - 1} + \frac{6^2}{6^2 - 1} + \cdots + \frac{100^2}{100^2 - 1}\right)$$

$$= \frac{1}{4} \times \left(1 + \frac{1}{2^2 - 1} + 1 + \frac{1}{4^2 - 1} + 1 + \frac{1}{6^2 - 1} + \cdots + 1 + \frac{1}{100^2 - 1}\right)$$

$$= \frac{1}{4} \times \left(50 + \frac{1}{1 \times 3} + \frac{1}{3 \times 5} + \frac{1}{5 \times 7} + \cdots + \frac{1}{99 \times 101}\right)$$

$$= \frac{1}{4} \times \left[50 + \frac{1}{2} \times \left(1 - \frac{1}{3} + \frac{1}{3} - \frac{1}{5} + \frac{1}{5} - \frac{1}{7} + \cdots + \frac{1}{99} - \frac{1}{101}\right)\right]$$

$$= \frac{1}{4} \times \left[50 + \frac{1}{2} \times \left(1 - \frac{1}{101}\right)\right] = \frac{1}{4} \times 50 \frac{50}{101} = 12 \frac{63}{101}$$

$$484. \frac{5+6}{5 \times 6} - \frac{6+7}{6 \times 7} + \frac{7+8}{7 \times 8} - \frac{8+9}{8 \times 9} + \frac{9+10}{9 \times 10} = \frac{1}{5} + \frac{1}{6} - \left(\frac{1}{6} + \frac{1}{7}\right) + \cdots + \left(\frac{1}{9} + \frac{1}{10}\right) = \frac{1}{5} + \frac{1}{10} = \frac{3}{10}$$

$$485. \text{ 原式} = \frac{3}{5} + \frac{6}{7} + \frac{2+3}{2 \times 3} + \frac{3+4}{3 \times 4} + \frac{4+5}{4 \times 5} + \frac{5+6}{5 \times 6} + \frac{6+7}{6 \times 7} = \frac{3}{5} + \frac{6}{7} + \frac{1}{2} + \frac{1}{3} + \frac{1}{4} + \frac{1}{5} + \frac{1}{6} + \frac{1}{7} = 4$$

$$486. \text{ 原式} = \frac{1}{3} + \frac{3}{4} + \frac{2}{5} + \frac{5}{7} + \frac{7}{8} + \frac{1}{4} + \frac{1}{5} + \frac{1}{3} + \frac{1}{7} + \frac{1}{3} + \frac{1}{8} + \frac{2}{5} + \frac{1}{7} = 1 + 1 + 1 + 1 + 1 = 5$$

$$\begin{aligned} 487. \text{ 原式} &= \frac{1}{3} + \frac{2}{5} + \frac{3}{7} + \frac{1}{3} + \frac{1}{4} + \frac{1}{4} + \frac{1}{5} + \frac{1}{4} + \frac{1}{7} + \frac{2}{5} + \frac{1}{6} + \frac{1}{6} + \frac{3}{7} \\ &= \left(\frac{1}{3} + \frac{1}{3} + \frac{1}{6} + \frac{1}{6}\right) + \left(\frac{2}{5} + \frac{1}{5} + \frac{2}{5}\right) + \left(\frac{3}{7} + \frac{1}{7} + \frac{3}{7}\right) + \left(\frac{1}{4} + \frac{1}{4} + \frac{1}{4}\right) = 3\frac{3}{4} \end{aligned}$$

$$\begin{aligned}
 488. \text{ 原式} &= \frac{1}{2} + \frac{1}{3} + \frac{1}{30} + \frac{1}{31} + \frac{1}{41} + \left(\frac{1}{3} + \frac{1}{17}\right) + \left(\frac{1}{7} - \frac{1}{17}\right) + \left(\frac{1}{4} - \frac{1}{30}\right) + \left(\frac{1}{3} - \frac{1}{41}\right) + \left(\frac{1}{4} - \frac{1}{31}\right) \\
 &= \frac{1}{2} + \frac{1}{3} + \frac{1}{3} + \frac{1}{7} + \frac{1}{4} + \frac{1}{3} + \frac{1}{4} = 2\frac{1}{7}
 \end{aligned}$$

$$\begin{aligned}
 489. \text{ 原式} &= \left[\left(\frac{5}{6} - \frac{7}{12} + \frac{9}{20} - \frac{11}{30} + \frac{13}{42} - \frac{15}{56} \right) \times 7 - 1\frac{3}{8} \right] \times 8 \\
 &= \left[\left(\frac{1}{2} + \frac{1}{3} - \frac{1}{3} - \frac{1}{4} + \cdots - \frac{1}{7} - \frac{1}{8} \right) \times 7 - \frac{11}{8} \right] \times 8 \\
 &= \left(\frac{1}{2} - \frac{1}{8} \right) \times 7 \times 8 - \frac{11}{8} \times 8 \\
 &= 21 - 11 = 10
 \end{aligned}$$

$$\begin{aligned}
 490. \text{ 原式} &= 1 - \frac{2+3}{2 \times 3} + \frac{3+4}{3 \times 4} - \frac{4+5}{4 \times 5} + \frac{5+6}{5 \times 6} - \frac{6+7}{6 \times 7} + \frac{7+8}{7 \times 8} - \frac{8+9}{8 \times 9} + \frac{9+10}{9 \times 10} \\
 &= 1 - \left(\frac{1}{2} + \frac{1}{3} \right) + \left(\frac{1}{3} + \frac{1}{4} \right) - \left(\frac{1}{4} + \frac{1}{5} \right) + \left(\frac{1}{5} + \frac{1}{6} \right) - \left(\frac{1}{6} + \frac{1}{7} \right) + \left(\frac{1}{7} + \frac{1}{8} \right) - \left(\frac{1}{8} + \frac{1}{9} \right) + \left(\frac{1}{9} + \frac{1}{10} \right) \\
 &= 1 - \frac{1}{2} + \frac{1}{10} = \frac{3}{5}
 \end{aligned}$$

$$\begin{aligned}
 491. \text{ 原式} &= \frac{1}{4} + \frac{1}{5} + \frac{1}{3} + \frac{1}{4} + \frac{1}{4} + \frac{1}{5} + \frac{1}{3} + \frac{1}{5} + \frac{2}{5} + \frac{1}{6} + \frac{1}{4} + \frac{1}{6} \\
 &= \frac{1}{3} \times 2 + \frac{1}{4} \times 4 + \frac{1}{5} \times 5 + \frac{1}{6} \times 2 = 3
 \end{aligned}$$

$$492. \text{ 原式} = \frac{1}{2} + \frac{2}{1} + \frac{3}{2} + \frac{2}{3} + \frac{3}{4} + \frac{4}{3} + \cdots + \frac{19}{18} + \frac{18}{19} + \frac{19}{20} + \frac{20}{19} = \frac{2}{1} + 2 \times 17 + \frac{19}{20} = 36\frac{19}{20}$$

$$\begin{aligned}
 493. \text{ 原式} &= \frac{2008}{2008} \times \left(\frac{1}{1 \times 2007} + \frac{1}{2 \times 2006} + \cdots + \frac{1}{2007 \times 1} \right) - \frac{2007}{2008} \left(\frac{1}{1 \times 2006} + \cdots + \frac{1}{2006 \times 1} \right) \\
 &= \frac{2008}{2008} \times \left(\frac{1}{1 \times 2007} + \frac{1}{2 \times 2006} + \cdots + \frac{1}{2007 \times 1} \right) - \frac{2007}{2008} \left(\frac{1}{1 \times 2006} + \cdots + \frac{1}{2006 \times 1} \right) \\
 &= \frac{1}{2008} \times \left(\frac{2008}{1 \times 2007} + \frac{2008}{2 \times 2006} + \cdots + \frac{2008}{2007 \times 1} \right) - \frac{1}{2008} \left(\frac{2007}{1 \times 2006} + \cdots + \frac{2007}{2006 \times 1} \right) \\
 &= \frac{1}{2008} \times \left[\left(\frac{1}{1} + \frac{1}{2007} + \frac{1}{2} + \frac{1}{2006} + \cdots + \frac{1}{2007} + \frac{1}{1} \right) - \left(\frac{1}{1} + \frac{1}{2006} + \cdots + \frac{1}{2006} + \frac{1}{1} \right) \right] \\
 &= \frac{1}{2008} \times \left[\left(\frac{1}{1} + \frac{1}{2007} + \frac{1}{2} + \frac{1}{2006} + \cdots + \frac{1}{2007} + \frac{1}{1} \right) - \left(\frac{1}{1} + \frac{1}{2006} + \cdots + \frac{1}{2006} + \frac{1}{1} \right) \right] \\
 &= \frac{1}{2008} \times \left(\frac{1}{2007} + \frac{1}{2007} \right) = \frac{1}{2015028}
 \end{aligned}$$

$$\begin{aligned}
 494. \text{ 原式} &= \left(\frac{1}{2} + \frac{1}{4} + \cdots + \frac{1}{98} \right) - \left(\frac{1}{3} + \frac{1}{5} + \cdots + \frac{1}{99} \right) + \left(\frac{1}{51} + \frac{1}{52} + \cdots + \frac{1}{99} \right) \\
 &= \left(\frac{1}{2} + \frac{1}{4} + \cdots + \frac{1}{50} \right) - \left(\frac{1}{3} + \frac{1}{5} + \cdots + \frac{1}{49} \right) + 2 \times \left(\frac{1}{52} + \frac{1}{54} + \cdots + \frac{1}{98} \right) \\
 &= \left(\frac{1}{2} + \frac{1}{4} + \cdots + \frac{1}{50} \right) - \left(\frac{1}{3} + \frac{1}{5} + \cdots + \frac{1}{49} \right) + \left(\frac{1}{26} + \frac{1}{27} + \cdots + \frac{1}{49} \right) \\
 &= \left(\frac{1}{2} + \frac{1}{4} + \cdots + \frac{1}{24} \right) - \left(\frac{1}{3} + \frac{1}{5} + \cdots + \frac{1}{25} \right) + 2 \times \left(\frac{1}{26} + \frac{1}{28} + \cdots + \frac{1}{48} \right) + \frac{1}{50} \\
 &= \left(\frac{1}{2} + \frac{1}{4} + \cdots + \frac{1}{24} \right) - \left(\frac{1}{3} + \frac{1}{5} + \cdots + \frac{1}{25} \right) + \left(\frac{1}{13} + \frac{1}{14} + \cdots + \frac{1}{24} \right) + \frac{1}{50} \\
 &= \left(\frac{1}{2} + \frac{1}{4} + \cdots + \frac{1}{12} \right) - \left(\frac{1}{3} + \frac{1}{5} + \cdots + \frac{1}{11} \right) + 2 \times \left(\frac{1}{14} + \frac{1}{16} + \cdots + \frac{1}{24} \right) + \frac{1}{50} - \frac{1}{25}
 \end{aligned}$$

$$\begin{aligned}
&= \left(\frac{1}{2} + \frac{1}{4} + \cdots + \frac{1}{12}\right) - \left(\frac{1}{3} + \frac{1}{5} + \cdots + \frac{1}{11}\right) + \left(\frac{1}{7} + \frac{1}{8} + \cdots + \frac{1}{12}\right) + \frac{1}{50} - \frac{1}{25} \\
&= \left(\frac{1}{2} + \frac{1}{4} + \frac{1}{6}\right) - \left(\frac{1}{3} + \frac{1}{5}\right) + 2 \times \left(\frac{1}{8} + \frac{1}{10} + \frac{1}{12}\right) + \frac{1}{50} - \frac{1}{25} \\
&= \left(\frac{1}{2} + \frac{1}{4} + \frac{1}{6}\right) - \left(\frac{1}{3} + \frac{1}{5}\right) + \left(\frac{1}{4} + \frac{1}{5} + \frac{1}{6}\right) + \frac{1}{50} - \frac{1}{25} \\
&= 1 + \frac{1}{50} - \frac{1}{25} = \frac{49}{50}
\end{aligned}$$

$$\begin{aligned}
495. \text{ 原式} &= \frac{3-1}{3} + \frac{5-1}{3 \times 5} + \frac{7-1}{3 \times 5 \times 7} + \cdots + \frac{13-1}{3 \times 5 \times 7 \times 9 \times 11 \times 13} \\
&= \left(1 + \frac{1}{3} + \frac{1}{3 \times 5} + \cdots + \frac{1}{3 \times 5 \times 7 \times 9 \times 11}\right) - \left(\frac{1}{3} + \frac{1}{3 \times 5} + \cdots + \frac{1}{3 \times 5 \times 7 \times 9 \times 11 \times 13}\right) \\
&= 1 - \frac{1}{3 \times 5 \times 7 \times 9 \times 11 \times 13} \\
&= \frac{135134}{135135}
\end{aligned}$$

$$\begin{aligned}
496. \frac{2^3}{1 \times 3 \times 5} + \frac{2^4}{3 \times 5 \times 7} + \cdots + \frac{2^{11}}{17 \times 19 \times 21} &= \frac{2}{1 \times 3} - \frac{2}{3 \times 5} + \frac{4}{3 \times 5} - \frac{4}{5 \times 7} + \cdots + \frac{2^9}{17 \times 19} - \frac{2^9}{19 \times 21} \\
&= \frac{2}{1 \times 3} + \frac{2}{3 \times 5} + \frac{4}{5 \times 7} + \cdots + \frac{2^8}{17 \times 19} - \frac{2^9}{19 \times 21} \\
\text{所以原式} &= \frac{1}{1 \times 3} + \frac{2}{3 \times 5} + \cdots + \frac{2^8}{17 \times 19} - \left(\frac{2}{1 \times 3} + \frac{2}{3 \times 5} + \frac{4}{5 \times 7} + \cdots + \frac{2^8}{17 \times 19} - \frac{2^9}{19 \times 21}\right) \\
&= \frac{2^9}{19 \times 21} - \frac{1}{1 \times 3} = \frac{512-133}{399} = \frac{379}{399}
\end{aligned}$$

497. 2

498. -3

499. -3

500. -17