

Order of Operations

Evaluate the following expressions. Reduce any fractions that you encounter.

- $18 + 17$
- $12 - 5$
- $16 + 27$
- $13 - 6$
- $-8 - 11$
- $44 - 17$
- $-12 + 15$
- $-17 - 9$
- $6 - 40$
- $-17 + 9$
- $23 + (-16)$
- $12 - (-9)$
- $-14 - (-8)$
- $(-11) + (-23)$
- $(-19) - (-10)$
- $-(-5) - (-2)$
- $12 - 15 - 4$
- $23 - (-17) + 49$
- $-3 + 35 + (-32)$
- $-3 - 35 + 9$
- $-26 - 14 + 11$
- $-26 + 14 - 1 + (-12)$
- $39 + (-45) - 4 + 10$
- $172 + 99$
- $-133 + 84$
- $5 + (7)(6)$
- $2 + 3(1 - 4)$
- $-14 + (-3)(9)$
- $-5 + 5(12 - 17)$
- $(4)(2)(-3) - (-2)(-12)$
- $(-11)(8) + (5)(-1)(-7)$
- $3 - 33 \div 11$
- $72 \div 8 - 19$
- $(48 \div 2) \times 3$
- $48 \div (2 \times 3)$
- $56 \div 7 - 81 \div 9$
- $10 \div ((8 - 7) \times 2)$
- $|9 - 11 - 3|$
- $-|9 - 11 - 3|$
- $|(12)(5)|$
- $-|17 + 25|$
- -2^2
- $(-2)^2$
- $(-2)^3$
- $-(-2)^5$
- $-(-2)^4$
- $(-2)^0 + (-2)^1 + (-2)^2 + (-2)^3$
- 8675309^0
- $(-2 - 7)^2$
- $(-3)^3 - 3^2 + 2^3 - (-2)^4$
- $(1^4 + 2^2 + 6^0)^2$
- $(-3)^3 - 5^2 \cdot 4$
- $8 \div (4^2 - 8)$
- $4 \cdot (-5)^2 - 3^4$

55. 145^0
56. $(2 - 5)^2 \times (12 - 10)^3$
57. $(17 - 15)^4 \div (1 - 5)^2$
58. $[-4(2 - 3)^{14} + 5]^{52}$
59. $\frac{3}{12}$ (just reduce the fraction)
60. $\frac{36}{42}$
61. $\frac{21}{105}$
62. $\frac{48}{168}$
63. $\frac{28}{350}$
64. $\frac{7}{2} + \frac{4}{2}$
65. $-\frac{5}{6} + \frac{8}{6}$
66. $-\frac{3}{11} - \frac{17}{11}$
67. $\frac{7}{4} + \frac{7}{4}$
68. $\frac{1}{2} - \frac{1}{3}$
69. $-\frac{3}{2} + \frac{3}{4}$
70. $-\frac{5}{6} - \frac{2}{7}$
71. $\frac{4}{15} + \frac{3}{5}$
72. $-\frac{7}{12} + \frac{5}{8}$
73. $\frac{3}{10} + \frac{13}{15}$
74. $-\frac{5}{2} + \frac{4}{3} - \frac{1}{7}$
75. $-\frac{7}{4} + \frac{5}{6} + \frac{1}{12}$
76. $\frac{24}{21} + \frac{40}{24}$ (hint: reduce first)
77. $\frac{54}{63} + \frac{40}{56}$
78. $\frac{1}{-2} + \frac{5}{-2}$
79. $\frac{5}{-3} - \frac{8}{-3}$
80. $-\frac{1}{5} - \frac{11}{-5}$
81. $-7 - \frac{1}{4}$
82. $\frac{3}{4} \cdot (\frac{5}{6}) + 4$
83. $(\frac{7}{9})^2$
84. $(-\frac{2}{3})^3$
85. $(-\frac{117}{103})^0$
86. $12(-\frac{1}{4})^2$
87. $(-\frac{4}{5})^2 \cdot 10$
88. $\frac{7}{23} \cdot \frac{23}{7}$
89. $\frac{14}{23} \cdot \frac{23}{17}$
90. $\frac{24}{6} \cdot \frac{180}{480}$
91. $\frac{2}{7} \div \frac{1}{7}$
92. $\frac{8}{11} \div \frac{6}{11}$
93. $\frac{6}{-5} \div \frac{-9}{5}$
94. $\frac{1}{2} \div 3$
95. $5 \div \frac{1}{8}$
96. $16 \div \frac{4}{3}$
97. $\frac{3}{5} \div \frac{2}{15}$
98. $\frac{15}{2} \div (-5)$
99. $22 \div (-\frac{11}{3})$
100. $\frac{6}{9} \div \frac{20}{-15}$
101. $3 - (\frac{9}{5} - \frac{2}{15})$
102. $4 \left(\frac{(10-6)^2}{-2+(0-3)(8-6)} \right)^2$
103. $3 - 2(\frac{1}{6} - \frac{1}{3})^2$
104. $-(\frac{5}{2})^2 + 2 - \frac{1}{8}$
105. $120 \div \frac{4-6 \cdot 8}{-7-[3-(-10+9)]}$
106. $\frac{1}{2} - \frac{15}{7}(-\frac{4}{5} + \frac{6}{15})$
107. $19 - (7 + |3 - 3^2 \cdot 2|)$
108. $\frac{-6(9^0)+12 \cdot 4}{|-2-15 \div 3|} + (-8)$
109. $(\frac{1}{5} - \frac{3}{8}) + (\frac{3}{4} \cdot \frac{7}{5})$

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|------|---|----------|
| 110. | $(4^0 - 4^2) \div \frac{2(3-2)}{1+ -3 }$ | Answers: |
| 111. | $\frac{(42 \div (-6))(2+8)}{-4+ (-3)^4-87 } + (-5) \times 6$ | 1. 35 |
| 112. | $(\frac{2}{7} - \frac{4}{5}) - (\frac{1}{7} \cdot \frac{3}{5} + \frac{1}{2})$ | 2. 7 |
| 113. | $ (-2)^3 + 3^2 - 4^1 + 5^0 + -2 + 3 - 4 + 5 - 2$ | 3. 43 |
| 114. | $-\frac{3}{7} - \frac{7}{3} \div (\frac{5}{6} + \frac{-3}{5})$ | 4. 7 |
| 115. | $[1 - (-23)] \div [(-2) - 4] + (4)(-9)$ | 5. -19 |
| 116. | $\frac{3}{2} - \frac{2}{5} \div \frac{-2}{3} + 3(\frac{5}{6} + \frac{-3}{4})$ | 6. 27 |
| 117. | $\frac{-5^2 + (-3)^2 - (-6) + (2)(4)^2}{ 10 - 3(2+4) }$ | 7. 3 |
| 118. | $9 - 5(2^3 - 3^0)$ | 8. -26 |
| 119. | $\frac{4}{2(1-4)} \div \frac{2(3-5)}{1-(-2)}$ | 9. -34 |
| 120. | $ -2^2 - 6 - (-2)^2 - 10 $ | 10. -8 |
| 121. | $\frac{5^2}{18+7} - \frac{7 \times (2+2)}{4+(6)(-3)}$ | 11. 7 |
| 122. | $7 - [-3^2 - (-2)^2]^2 + \frac{2}{5}(\frac{50}{4})$ | 12. 21 |
| 123. | $\frac{9}{2} \div (\frac{5}{6} + \frac{11}{3}) \times \frac{8}{3}$ | 13. -6 |
| 124. | $3 \div \frac{5(-9)}{3^0 - -2 }$ | 14. -34 |
| 125. | $8 + 2 \left(\frac{3(19^0) + 3^3}{ -8 + 14 \div 7} \right) (1 - 4)$ | 15. -9 |
| | | 16. 7 |
| | | 17. -7 |
| | | 18. 89 |
| | | 19. 0 |
| | | 20. -29 |
| | | 21. -29 |
| | | 22. -25 |
| | | 23. 0 |
| | | 24. 271 |
| | | 25. -49 |
| | | 26. 47 |
| | | 27. -7 |
| | | 28. -41 |
| | | 29. -30 |
| | | 30. -48 |
| | | 31. -53 |

32. 0

33. -10

34. 72

35. 8

36. -1

37. 5

38. 5

39. -5

40. 60

41. -42

42. -4

43. 4

44. -8

45. 32

46. -16

47. -5

48. 1

49. 81

50. -44

51. 36

52. -127

53. 1

54. 19

55. 1

56. 72

57. 1

58. 1

59. $\frac{1}{4}$

60. $\frac{6}{7}$

61. $\frac{1}{5}$

62. $\frac{2}{7}$

63. $\frac{2}{25}$

64. $\frac{11}{2}$

65. $\frac{1}{2}$

66. $-\frac{20}{11}$

67. $\frac{7}{2}$

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

69. $-\frac{3}{4}$

70. $-\frac{47}{42}$

71. $\frac{13}{15}$

72. $\frac{1}{24}$

73. $\frac{7}{6}$

74. $-\frac{55}{42}$

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

76. $\frac{59}{21}$

77. $\frac{11}{7}$

78. -3

79. 1

80. 2

81. $-\frac{29}{4}$

82. $\frac{37}{8}$

83. $\frac{49}{81}$

84. $-\frac{8}{27}$

85. 1

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

87. $\frac{32}{5}$

88. 1

89. $\frac{14}{17}$

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

91. 2

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

93. $\frac{2}{3}$

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

95. 40

96. 12

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

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

99. -6

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

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

102. 16

103. $\frac{53}{18}$

104. $-\frac{35}{8}$

105. 30

106. $\frac{19}{14}$

107. -3

108. -2

109. $\frac{7}{8}$

110. -30

111. -5

112. $-\frac{11}{10}$

113. 2

114. $-\frac{73}{7}$

115. -40

116. $\frac{47}{20}$

117. $\frac{11}{4}$

118. -26

119. $\frac{1}{2}$

120. 4

121. 3

122. -157

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

124. $\frac{1}{15}$

125. -10