

Basic Calculation
BEDMAS and Conversions

1 Fractions

1.1 Addition & Subtraction

1) $\frac{5}{7} + \frac{3}{7}$

2) $1\frac{9}{14} - \frac{5}{7}$

3) $\frac{4}{9} + \frac{5}{7}$

4) $\frac{3}{4} + \frac{1}{5}$

5) $9\frac{1}{5} + 21\frac{3}{5} - 17$

6) $8\frac{3}{13} + 17$

7) $\frac{4}{18} + 5 - \frac{2}{17}$

1.2 Multiplication

8) $3 \times \frac{4}{7}$

9) $\frac{5}{9} \times \frac{6}{7}$

10) $\frac{4}{7} \times \frac{2}{3}$

11) $\frac{6}{19} \times \frac{2}{13}$

12) $7\frac{2}{5} \times 9\frac{1}{4}$

13) $8\frac{2}{3} \times 5$

14) $1\frac{4}{5} \times 4 \times \frac{7}{8}$



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1.3 Division

15) $4 \div \frac{5}{6}$

16) $\frac{3}{7} \div 2\frac{9}{13}$

17) $\frac{5}{8} \div \frac{3}{8}$

18) $1\frac{3}{4} \div 1\frac{1}{8}$

19) $3\frac{4}{9} \div \frac{2}{3}$

20) $8\frac{1}{3} \div \frac{5}{21}$

21) $2\frac{4}{5} \div \frac{1}{2}$

2 Decimals

2.1 Addition & Subtraction

22) $9.12 + 3.15 + 1.43$

23) $0.56 + 2.3 - 1.03$

24) $0.124 + 2.85$

25) $143 - 0.01 + 2.51$

26) $3.14159 - 0.25418 + 0.0325$

27) $7.82 - 2.15$

28) $2.05 + 1.01 - 2.03$



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2.2 Multiplication

29) 6.413×0.5

30) 2.3146×100

31) 0.25×100

32) 0.3319×7.213

33) $4 \times 5.2 \times 0.03$

34) $2.01 \times 7 \times 4.0001$

35) $6.12 \times 5.02 \times 2$

2.3 Division

36) $9 \div 0.3$

37) $75 \div 0.25$

38) $0.9 \div 3$

39) $54 \div 0.02$

40) $1500 \div 0.5$

41) $2.01 \div 0.03$

42) $0.0035 \div 0.07$



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3 Percentage

3.1 Converting Percent to Fraction and Decimal

43) 143%

44) $2\frac{1}{2}$

45) 3.14159%

46) 0.351

47) 4.32%

48) $9\frac{24}{25}$

49) $324\frac{1}{3}\%$

3.2 Word Problems

50) What is 34% of 100?

51) 42% of what number is 21?

52) 12% of what number is 18?

53) What percent of 25 is 10?

54) What percent is 0.25 of 8?

55) What is 12% of 30?

56) What is 7.5% of 20?



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4 Order of Operations

57) $12 - \left(\frac{8}{5} + 3 \div \frac{2}{3}\right)$

58) $\frac{11}{2} + \frac{9}{2} - (3 - 2)$

59) $\left(\frac{9}{2} + \frac{5}{2}\right) \div \frac{11}{2} \div \frac{1}{5}$

60) $10 + 4 - \frac{3}{2} - \frac{9}{2}$

61) $\left(\frac{1}{2} \div \frac{9}{4}\right) \times \left(3 - 6\frac{3}{4}\right)$

62) $6 \times 1 \div \left(\frac{5}{2} + \frac{1}{3}\right)$

63) $\frac{1}{3} \times \frac{4}{5} \times \frac{2}{3} \div \frac{8}{5}$

5 Unit Conversions

5.1 Volume

64) Convert 30 mL to L

65) Convert 81 L to kL

66) Convert 281 L to mL

67) Convert 82 kL to mL

68) Convert 132 mL to L

69) Convert 2 L to mL

70) Convert 480 cc to L

71) Convert 16 L to cc

72) Convert 29 cc to mL

73) Convert 5.5 kL to cc



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5.2 Mass

- 74) Convert 34 g to kg
- 75) Convert 123 kg to mg
- 76) Convert 14 kg to g
- 77) Convert 392 g to kg
- 78) Convert 37 kg to μg
- 79) Convert 1205 mg to g
- 80) Convert 130 lb to kg
- 81) Convert 64 kg to lb
- 82) Convert 155 lb to g
- 83) Convert 53000 g to lb

6 Ratios

- 84) $18 : 6 = 12 : x$
- 85) $\frac{1}{x} = \frac{25}{1200}$
- 86) $74 : 12 = 37 : x$
- 87) $\frac{3}{29} = \frac{(24-x)}{174}$
- 88) $34 : 27 = (x - 43) : 567$
- 89) $4572 : 1649 = 484632 : (6497518 - x)$



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Answers/Solution

1) $1\frac{1}{7}$ or $\frac{8}{7}$

2) $\frac{13}{14}$

3) $1\frac{10}{63}$ or $\frac{73}{63}$

4) $\frac{19}{20}$

5) $13\frac{4}{5}$ or $\frac{69}{5}$

6) $25\frac{3}{13}$ or $\frac{328}{13}$

7) $5\frac{16}{153}$ or $\frac{781}{153}$

8) $1\frac{5}{7}$ or $\frac{12}{7}$

9) $\frac{10}{21}$

10) $\frac{8}{21}$

11) $\frac{12}{247}$

12) $68\frac{9}{20}$ or $\frac{1369}{20}$

13) $43\frac{1}{3}$ or $\frac{130}{3}$

14) $6\frac{3}{10}$ or $\frac{63}{10}$

15) $4\frac{4}{5}$ or $\frac{24}{5}$

16) $\frac{39}{245}$

17) $1\frac{2}{3}$ or $\frac{5}{3}$

18) $1\frac{5}{9}$ or $\frac{14}{9}$

19) $5\frac{1}{6}$ or $\frac{31}{6}$

20) 35

21) $5\frac{3}{5}$ or $\frac{28}{5}$

22) 13.7

23) 1.83

24) 2.974

25) 145.5

26) 2.91991

27) 5.67

28) 1.03

29) 3.2065

30) 231.46

31) 25

32) 2.3939947

33) 0.624

34) 56.281407

35) 61.4448

36) 30

37) 300

38) 0.3

39) 2700

40) 3000

41) 67

42) 0.05



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- 43) 1.43
44) 250%
45) 0.0314159
46) 35.1%
47) 0.0432
48) 996%
49) $3.24\bar{3}$
50) 34
51) 50
52) 150
53) 40%
54) 3200%
55) 3.6
56) 1.5
57) $\frac{59}{10}$ or $5\frac{9}{10}$
58) 9
59) $6\frac{4}{11}$ or $\frac{70}{11}$
60) 8
61) $\frac{1}{2}$
62) $2\frac{2}{17}$ or $\frac{36}{17}$
63) $\frac{1}{9}$
64) 0.03 L
65) 0.081 kL
66) 281000 mL
67) 82000000 mL
68) 0.132 L
69) 2000 mL
70) 0.480 L
71) 16000 cc
72) 29 mL
73) 5 500 000 cc
74) 0.034 kg
75) 123000000 mg
76) 14000 g
77) 0.392 kg
78) 37000000000 μ g
79) 1.205 g
80) 59 kg
81) 141.10 lb
82) 70306.8 g
83) 116.84 lb
84) 4
85) 48
86) 6
87) 6
88) 757
89) 6322724



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