

FOUR OPERATIONS – DECIMAL NUMBERS

Task 1 – Work out the following calculations.

1) $0.3 + 0.4 = 0.7$

2) $1.2 + 3.5 = 4.7$

3) $2.47 + 1.2 = 3.67$

4) $4.75 + 0.25 = 5$

5) $3 + 2.67 = 5.67$

6) $12.4 + 6.31 = 18.71$

7) $3.06 + 1.008 = 4.068$

8) $15.478 + 0.008 = 15.486$

9) $25.5 + 14.75 = 40.25$

10) $109.2 + 36.89 = 146.09$

11) $203.48 + 91.6 = 295.08$

12) $0.047 + 0.0059 = 0.0529$

13) $344.678 + 123.456 = 468.134$

14) $14.57 + 3.489 + 289.1 = 307.159$

15) $543.5 + 17.89 + 12.431 = 573.821$

Task 2 – Work out the following calculations.

16) $0.7 - 0.3 = 0.4$

17) $4.6 - 1.2 = 3.4$

18) $5.5 - 2.35 = 3.15$

19) $15.37 - 3.6 = 11.77$

20) $10.05 - 0.5 = 9.55$

21) $8.2 - 3.78 = 4.42$

22) $22.75 - 14.2 = 8.55$

23) $100.6 - 25.45 = 75.15$

24) $305.9 - 186.33 = 119.57$

25) $1 - 0.375 = 0.625$

26) $500.625 - 123.48 = 377.145$

27) $3467.22 - 9.437 = 3457.783$

28) $3 - 0.946 = 2.054$

29) $1000 - 425.68 - 2.37 = 571.95$

30) $24.56 - 3.39 - 2.4 = 18.77$

Task 3 – Work out the following calculations.

31) $0.2 \times 3 = 0.6$

32) $0.5 \times 0.5 = 0.25$

33) $5 \times 3.6 = 18$

34) $1.67 \times 0.2 = 0.334$

35) $1.2 \times 3.5 = 4.2$

36) $2.1 \times 4.2 = 8.82$

37) $0.6 \times 12 = 7.2$

38) $5.25 \times 3 = 15.75$

39) $0.75 \times 0.4 = 0.3$

$$40) 7.2 \times 6.8 = 48.96$$

$$41) 0.09 \times 0.03 = 0.0027$$

$$42) 13.5 \times 8.25 = 111.375$$

$$43) 345.67 \times 3.89 = 1344.6563$$

$$44) 15.5 \times 2.2 \times 36.098 = 1230.9418$$

$$45) 436.89 \times 12 \times 0.08 = 419.4144$$

Task 4 – Work out the following calculations.

$$46) 1.2 \div 0.4 = 3$$

$$47) 15 \div 0.2 = 75$$

$$48) 6.3 \div 0.7 = 9$$

$$49) 4.8 \div 1.2 = 4$$

$$50) 0.6 \div 0.2 = 3$$

$$51) 10.5 \div 1.5 = 7$$

$$52) 24.6 \div 1.2 = 20.5$$

$$53) 8.64 \div 2 = 4.32$$

$$54) 42.6 \div 1.2 = 35.5$$

$$55) 15.75 \div 0.5 = 31.5$$

$$56) 3.75 \div 1.25 = 3$$

$$57) 0.09 \div 0.03 = 3$$

$$58) 251.7 \div 3 = 83.9$$

$$59) 28.56 \div 4.2 = 6.8$$

$$60) 12.5 \div 0.4 = 31.25$$

Challenge

61) Mia places 3.5 kg of apples and 2.75 kg of bananas in a box. If a box safely holds 7.15 kg, can she add two oranges that weigh 0.41 kg each?

$$7.15 - (3.5 + 2.75) = 0.9 \text{ kg}$$

$$0.9 - 0.41 - 0.41 = 0.08 \text{ kg}$$

Yes

62) A rope is 14.25 metres long. Sam cuts four pieces off, that are 3.25 metres each. How much rope remains?

$$3.25 \times 4 = 13 \text{ m}$$

$$14.25 - 13 = 1.25 \text{ m}$$

1.25 metres

63) A notebook costs £2.45. John would like to buy three notebooks and a pen that costs £1.15. If he pays with a £10 note, how much change does he receive?

$$2.45 \times 3 = 7.35$$

$$7.35 + 1.15 = 8.50$$

$$10 - 8.50 = 1.50$$

£1.50 change

64) A water tank holds 37.5 litres. If 4.8 litres are used each day, how many days until the tank is empty?

$$37.5 \div 4.8 = 7.8125$$

8 days

65) Tanya is having 15 guests over for dinner. A drink recipe calls for 0.25 litres of juice per glass. If she has 7.25 litres of juice, is there enough for each guest to have two glasses of juice?

$$7.25 \div 0.25 = 28$$

She needs 30 litres for each guest to have two. No, she does not have enough.