Decimals (2)

- Multiplying and dividing decimals by 10, 100 and 1000
- Adding and subtracting decimals

Keywords

You should know

explanation 1a

explanation 1b

1 Work out these calculations.

a
$$2.7 \times 10$$

b
$$0.21 \times 10$$

c
$$0.05 \times 10$$

d
$$0.28 \times 10$$

f
$$0.07 \times 10$$

g
$$0.86 \times 10$$

h
$$0.94 \times 10$$

2 Work these out.

a
$$36 \div 10$$

d
$$0.7 \div 10$$

f
$$24.2 \div 10$$

g
$$6.4 \div 10$$

3 Work these out.

c
$$100 \times 0.57$$

d
$$0.28 \times 100$$

f
$$100 \times 4.76$$

g
$$0.36 \times 100$$

4 Work these out.

g
$$8310 \div 100$$

5 Max's Pizza charges £3.49 per pizza.

How much would 10 pizzas cost?

6 David and Gemma are stuck on the question 5.3×10 .

David says the answer is 5.30 because you put a zero on the end when you multiply by 10.

Gemma says she thinks the answer is 53.

Explain why Gemma is correct.

7 Work these out.

a $72 \div 10$

b 3.74×100 **c** 0.43×10

d $12.3 \div 100$

e 0.07×100

f $6.1 \div 10$

g 5432 ÷ 100

h 4.68×100

8 Find the value of the missing number.

a
$$\square \times 0.003 = 0.3$$

b
$$2.7 \div \square = 0.027$$
 c $100 \times \square = 45$

c
$$100 \times \square = 45$$

d
$$\Box \div 100 = 0.653$$

e
$$10 \times \square = 0.09$$

f
$$\Box \div 1000 = 8.6$$

explanation 2

9 Jafar buys two DVDs at a shop. One cost £11.39 and the other cost £9.99.

11.39

How much did he spend?

10 Sharon buys two books from the supermarket. One cost £3.73 and the other cost £4.51.

How much did she spend?

11 Keith buys a t-shirt for £6.99 and a pair of jeans for £26.99.

How much did he spend?

12 Work out the total cost of a shirt at £18.75 and a tie at £12.99.

13 Esme wanted to find out the total cost of her last three calls on her mobile phone.

The calls cost £3.27, 36p and £4.

3 . 2 7

Explain Esme's mistake.

Work out the correct total cost of the calls.

14 Find the total cost of a sandwich at £2.30, a packet of crisps at 45p and a drink at £1.

15 Work out these sums.

$$\mathbf{f}$$
 0.076 + 0.14 + 2.83

explanation 3

16 Ashok has a £5 note. He buys a snack for £1.39. How much change should he get?

17 Mia bought two CDs for £12.97. One of the CDs cost £4.79.

How much did the other one cost?

18 Chloe's car service cost £134.25 + VAT. She paid a total price of £157.74.

How much was the VAT?

19 Naveed bought a book at £3.79 and a CD at £9.79 at the supermarket. He pays with a £20 note.

How much change should he get?

20 Jenny spent £34.37 at the supermarket. She paid with two £20 notes. How much change should she have?

21 Work out these differences.

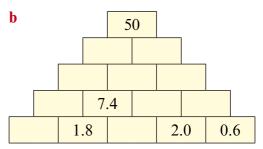
22 You will need to do two calculations for each of these.

a
$$5.37 + 6.28 - 7.9$$

1.7

23 Copy and complete these addition pyramids.

3.2 2



24 Copy and complete these calculations.

2 . 8 + 1 . 3 7

2.3

1 7 . 9 + 2 . 3 . 2 . 0 4

9 . 7 3 - 4 . 7 2 . 3 9 2

25 This diagram shows a magic star.

The numbers lying on each line have the same total.

1.7

Copy and complete the magic star using these numbers.

2.5 0.75 2.75 1 0.5

