SCORE

Numbers
with **Classified**
answer book

8

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15- Decimals: Multiplication and Division

1. Work out

   (a)   0.3 x 0.2

   (b)   0.8 x 1.2

2. Work out

   (a)   5.18 ÷ 7

   (b)   16.44 ÷ 0.3

3. Work out

(a) 0.3 x 0.3

(b) 0.06 x 0.4

(c) 1.9 x 1.2

(d) 12.4 x 0.7

(e) 75.2 x 0.02

4. Work out

    (a) $120 \div 0.3$

    (b) $14.04 \div 6$

    (c) $0.845 \div 0.5$

    (d) $1.72 \div 0.8$

    (e) $5 \div 0.04$

5. Shown below is a rectangle.

   Find the area of the rectangle.
   Include units.

8.2 cm

3.6 cm

6. State whether each answer is more than 20 or less than 20.
   Write "more than" or "less than" for each.

   (a)   20 x 0.8

   (b)   20 ÷ 0.8

   (c)   0.2 x 200

   (d)   0.2 ÷ 200

7. Look at the method shown to work out $4 \div 0.6$

$$4 \div 0.6 = 4 \div \frac{3}{5} = 4 \times \frac{5}{3} = \frac{20}{3} = 6\frac{2}{3}$$

Use this method to solve the calculations.

a) $3 \div 0.2$

b) $6 \div 0.4$

8. Mrs Webb has a roll of ribbon that is 44.1m long. She needs strips of ribbon that are 2.5m long
   How many 2.5m strips will Mrs Webb get from the roll?

9. Alison changes £16 into American dollars.
   The exchange rate is £1 to $1.40
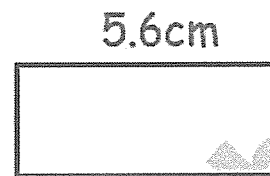
   How many American dollars does Alison receive?

10. A DVD costs £6.79 each
    Work out the cost of 5 DVDs.

11. Work out $\dfrac{4}{0.08}$

....

12. Shown below is a rectangle

    The area of the rectangle is 17.92cm².
    Find y

    5.6cm

    y

13. Nick takes 26 boxes out of his van.
    The weight of each box is 32.9 kg. Work
    out the total weight of the 26 boxes.

14. One tin holds 2.5 litres of paint.

    I need **20 litres** of paint.

    How many of these tins should I buy?

    Paint
    2.5 litres

15. Fill in the missing numbers.

    $2 \times \boxed{} = 12.4$

    $2 \times \boxed{} = 12.5$

16. Here are the costs of tickets for a concert.

Concert tickets		
Adults:	£24.50	
Children:	each	£16.45

(a) Two adults go to the concert with three children.

Altogether, how much do their tickets cost?

(b) Three adults go to the concert with some children.
Altogether, their tickets cost **£155.75**

How many children went to the concert with the three adults?

17. The cost of a calculator is £6.79

Work out the cost of 28 of these calculators.

18. A cake weighing 7.2 kg is cut into several pieces each weighing 0.6 kg.
How many pieces are there?

19. A phone call costs $0.04. How many calls can I make if I have $3.52?

20. A sheet of paper is 0.01 cm thick.
How many sheets are there in a pile of paper 5.8 cm thick?

21. Here are some numbers written in order of size.

$$\frac{9}{20} < x < 0.5 < y < \frac{7}{12}$$

Complete these sentences.

x is a **decimal** and a possible value of x is...

y is a **fraction** and a possible value of y is...