

Name: \_\_\_\_\_

## Exam Style Questions

### Decimals: Multiplication and Division



Corbettmaths

Ensure you have: Pencil, pen, ruler, protractor, pair of compasses and eraser

You may use tracing paper if needed

#### Guidance

1. Read each question carefully before you begin answering it.
2. Don't spend too long on one question.
3. Attempt every question.
4. Check your answers seem right.
5. Always show your workings

Revision for this topic

**Secondary**

Video 92

Video 93

Video 94



1. Work out

(a)  $0.3 \times 0.2$

$$\begin{array}{r} 0.06 \\ \hline \end{array} \quad (1)$$

(b)  $0.8 \times 1.2$

$$\begin{array}{r} 12 \\ \times 8 \\ \hline 96 \end{array}$$

$$\begin{array}{r} 0.96 \\ \hline \end{array} \quad (2)$$

---

2. Work out

(a)  $5.18 \div 7$

$$\begin{array}{r} 0.74 \\ 7 \overline{) 5.18} \end{array}$$

$$\begin{array}{r} 0.74 \\ \hline \end{array} \quad (2)$$

(b)  $16.44 \div 0.3$

$$164.4 \div 3$$
$$\begin{array}{r} 054.8 \\ 3 \overline{) 164.4} \end{array}$$

$$\begin{array}{r} 54.8 \\ \hline \end{array} \quad (2)$$

3. Work out

(a)  $0.\underline{3} \times 0.\underline{3}$

$$\begin{array}{r} 0.09 \\ \hline \end{array} \quad (1)$$

(b)  $0.\underline{06} \times 0.\underline{4}$

$$\begin{array}{r} 0.024 \\ \hline \end{array} \quad (1)$$

(c)  $1.\underline{9} \times 1.\underline{2}$

$$\begin{array}{r} 19 \\ \times 12 \\ \hline 38 \\ 190 \\ \hline 228 \end{array}$$

$$\begin{array}{r} 2.28 \\ \hline \end{array} \quad (2)$$

(d)  $12.\underline{4} \times 0.\underline{7}$

$$\begin{array}{r} 124 \\ \times 7 \\ \hline 868 \end{array}$$

$$\begin{array}{r} 8.68 \\ \hline \end{array} \quad (2)$$

(e)  $75.\underline{2} \times 0.\underline{23}$

$$\begin{array}{r} 752 \\ \times 23 \\ \hline 2256 \\ 15040 \\ \hline 17296 \end{array}$$

$$\begin{array}{r} 17.296 \\ \hline \end{array} \quad (2)$$

4. Work out

(a)  $120 \div 0.3$

$1200 \div 3$

$$3 \overline{) 1200} \begin{array}{r} 400 \\ \underline{1200} \\ 0 \end{array}$$

400

(1)

(b)  $14.04 \div 6$

$$6 \overline{) 14.04} \begin{array}{r} 2.34 \\ \underline{12} \phantom{.04} \\ 20 \phantom{.04} \\ \underline{18} \phantom{.04} \\ 20 \phantom{.04} \\ \underline{18} \phantom{.04} \\ 24 \\ \underline{24} \\ 0 \end{array}$$

2.34

(2)

(c)  $0.845 \div 5$

$$5 \overline{) 0.845} \begin{array}{r} 0.169 \\ \underline{0.8} \phantom{45} \\ 45 \\ \underline{45} \\ 0 \end{array}$$

0.169

(2)

(d)  $1.72 \div 0.8$

$17.2 \div 8$

$$8 \overline{) 17.20} \begin{array}{r} 2.15 \\ \underline{16} \phantom{.20} \\ 12 \phantom{.20} \\ \underline{16} \phantom{.20} \\ 20 \\ \underline{16} \\ 40 \\ \underline{40} \\ 0 \end{array}$$

2.15

(2)

(e)  $5 \div 0.04$

$50 \div 0.4$

$500 \div 4$

$$4 \overline{) 500} \begin{array}{r} 125 \\ \underline{4} \phantom{00} \\ 10 \phantom{0} \\ \underline{8} \phantom{0} \\ 20 \\ \underline{20} \\ 0 \end{array}$$

125

(2)

5. Shown below is a rectangle.



Find the area of the rectangle.  
Include units.

$$8.2 \times 3.6$$

$$\begin{array}{r} 82 \\ \times 36 \\ \hline 492 \\ 2460 \\ \hline 2952 \end{array}$$

$$\underline{29.52}$$

(3)

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

(a)  $20 \times 0.8$

$$16$$

less than

(b)  $20 \div 0.8$

$$25$$

more than

(c)  $0.2 \times 200$

$$40$$

more than

(d)  $0.2 \div 200$

$$0.001$$

less than

(2)

7. You are given that  $358 \times 26 = 9308$

Use this information to find the answers to

(a)  $3580 \times 260$

$$\underline{930800}$$

(1)

(b)  $3.58 \times 2.6$

$$4 \times 2.5 = 10$$

$$\underline{9.308}$$

(1)

(c)  $3580 \times 0.26$

$$4000 \times 0.2 \\ 800$$

$$\underline{930.8}$$

(1)

(d)  $93080 \div 2.6$

$$90000 \div 3 = 30000$$

$$\underline{35800}$$

(1)

(e)  $358 \times 52$

$$\begin{array}{r} 9308 \\ \times \quad 52 \\ \hline 18616 \end{array}$$

$$\underline{18616}$$

(2)

8. You are given that  $29 \times 1374 = 39846$

Use this information to find the answers to

(a)  $39846 \div 29$

$$\begin{array}{r} 1374 \\ \hline \end{array} \quad (1)$$

(b)  $2.9 \times 13.74$

$$3 \times 15 = 45$$

$$\begin{array}{r} 39.846 \\ \hline \end{array} \quad (1)$$

(c)  $0.29 \times 13740$

$$0.3 \times 10000 = 3000$$

$$\begin{array}{r} 3984.6 \\ \hline \end{array} \quad (1)$$

(d)  $398.46 \div 1.374$

$$\begin{array}{r} 290 \\ \hline \end{array} \quad (1)$$

(e)  $58 \times 1374$

$$\begin{array}{r} 39846 \\ \times \quad .2 \\ \hline 79692 \end{array}$$

$$\begin{array}{r} 79692 \\ \hline \end{array} \quad (2)$$

9. 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?

$$44.1 \div 2.5$$

$$441 \div 25$$

$$25 \overline{) 441.000}$$

17

.....  
(3)

10. Alison changes £16 into American dollars.  
The exchange rate is £1 to \$1.40

How many American dollars does Alison receive?

$$16 \times 1.4$$

$$\begin{array}{r} 16 \\ \times 1.4 \\ \hline 64 \\ 160 \\ \hline 224 \end{array}$$

\$ 22.40

.....  
(2)

11. A DVD costs £6.79 each.

Work out the cost of 5 DVDs.

$$\begin{array}{r} 6.79 \\ \times 5 \\ \hline 33.95 \end{array}$$

£ 33.95

.....  
(2)



12. Work out

(a)  $0.2 \times 0.1$

$$\begin{array}{r} 0.02 \\ \hline \end{array} \quad (1)$$

(b)  $0.7^2$

$$0.7 \times 0.7$$

$$\begin{array}{r} 0.49 \\ \hline \end{array} \quad (1)$$

(c)  $0.2^3$

$$0.2 \times 0.2 \times 0.2$$

$$\begin{array}{r} 0.008 \\ \hline \end{array} \quad (2)$$

- 
13. Scott has a rope 8 metres long.  
He says, "I need 9 pieces each 0.89 metres long."

Will Scott have enough ribbon?  
Explain your answer.

$$\begin{array}{r} \times \quad 0.89 \\ \quad 89 \\ \hline 8.01 \end{array}$$

no, he is 1cm short.

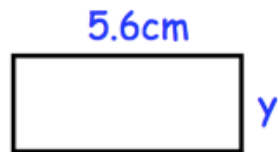
(3)

14. Work out

$$\frac{4}{0.08} = \frac{40}{0.8} = \frac{400}{8} = 50$$

50  
(2)

15. Shown below is a rectangle.



The area of the rectangle is  $17.92\text{cm}^2$ .  
Find  $y$ .

$$17.92 \div 5.6$$
$$179.2 \div 56$$

$$56 \overline{) 179.2} \begin{array}{r} 003 \cdot 2 \\ \underline{168} \phantom{.0} \\ 112 \phantom{.0} \\ \underline{112} \phantom{.0} \\ 0 \phantom{.0} \end{array}$$

$$56 \overline{) 179.2}$$

3.2  
(2)

16. Shown below is a 2 pence coin.



Each 2 pence coin is 0.185cm thick.  
Stephen builds a tower of 250 2p coins.

How tall is the tower?

$$250 \times 0.185$$

$$\begin{array}{r} 185 \\ \times 250 \\ \hline 0250 \\ 37000 \\ \hline 46250 \end{array}$$

$$46.250$$
$$46.25\text{cm}$$

$$\underline{\underline{46.25\text{cm}}}$$

(3)