

Day 2 – Dividing decimals by integers

Video Link: <https://vimeo.com/490691239>

The most important thing about dividing decimals is to remember to include your decimal point in the answer.

Set up the bus stop **exactly** how you would a normal division. **Put your decimal point in place first.** This way you can't forget it.

Firstly, try to divide the number in the tens column (9) by 7

$$7 \overline{) 93.8}$$

So solve this calculation just like normal:

How many 7s in 9 (1 carry 2)

How many 7s in 23 (3 carry 2)

The decimal point is **already** in place.

How many 7s in 28 (4 no carry)

$$93.8 / 7 = 13.4$$

Day 2 Starter

1) What is 0.6×7 ?

2) What is $1.8 \div 10$?

3) Work out $1\frac{5}{6} - \frac{5}{9}$

4) Work out $2,791 \text{ metres} - 1,344 \text{ metres}$



Day 2 Starter

1) What is 0.6×7 ? **4.2**

2) What is $1.8 \div 10$? **0.18**

3) Work out $1\frac{5}{6} - \frac{5}{9}$ **$1\frac{5}{18}$**

4) Work out 2,791 metres – 1,344 metres **1,447**



1. Complete these divisions

a) $11.9 \div 7 =$



c) $28.5 \div 5 =$



e) $31.8 \div 6 =$



g) $14.4 \div 16 =$



b) $26.4 \div 8 =$



d) $19.8 \div 9 =$



f) $78.4 \div 4 =$



h) $157.5 \div 25 =$



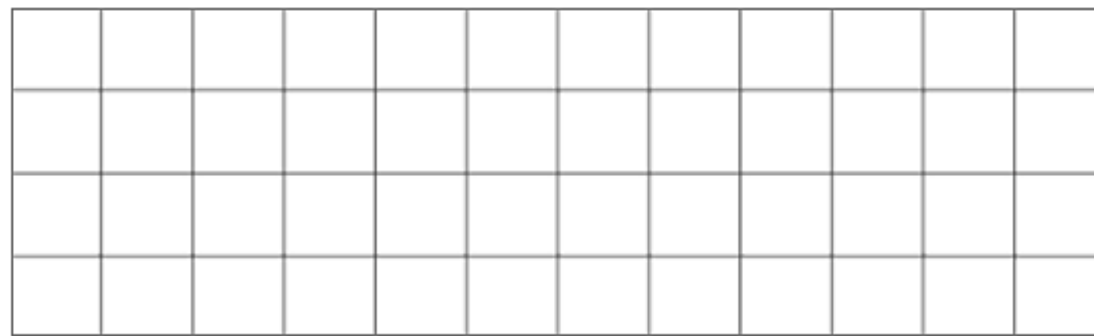
2. Winston knows that $34 \times 46 = 1564$.

He uses this fact to work out the value of $156.4 \div 46$
Find Winston's solution.

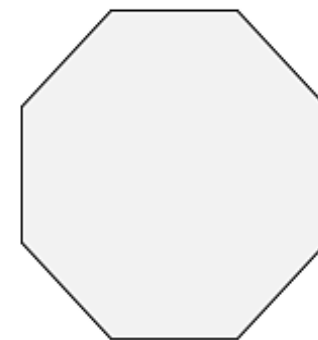
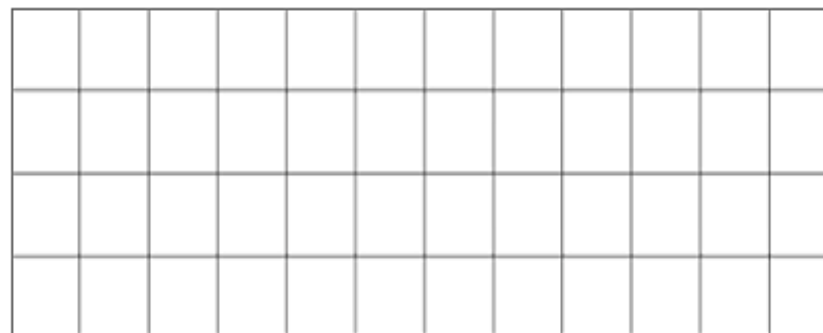
Explain your reasoning.

4. Solve these word problems and show your method.

a). James has 3.65m of rope into 5 pieces of equal length.
How long is equal piece of rope?



b) The perimeter of a regular octagon is 40.8cm
Calculate the length of each side.



ANSWERS:

1*	2*	3*
1a. £10.60	1a. 1.7	1a. 0.7
1b. £6.60	1b. 3.3	1b. 0.013
1c. £5.70	1c. 5.7	1c. 2.3
1d. £1.80	1d. 2.2	1d. 0.023
1e. £10.60	1e. 5.3	1e. 0.103
1f. £6.60	1f. 19.6	1f. 0.64
1g. £0.90 OR 90p	1g. 0.9	1g. 0.035
1h. £5.70	1h. 6.3	1h. 0.63
2. $£4.60 \times 9 = £41.40$ so $£41.40 \div 9 = £4.60$ because it is the inverse operation.	2. $34 \times 46 = 1,564$ so $156.4 \div 46 = 3.4$ because 1,564 is divided by 10 therefore 34 is divided by 10.	2. $34 \times 46 = 1,564$. $1,564 \div 4.6 = 340$ because 46 is divided by 10 so I must multiply 34 by 10.
4a. £1.63	4a. 0.73m	4a. £0.08 OR 8p
4b. £5.60	4b. 5.1cm	4b. 5.12cm