Formal methods: divide decimals



	14						
2.8	2.8	2.8	2.8	2.8			

1.4						
0.28	0.28	0.28	0.28	0.28		

a) Write the division represented by each bar model.

14+5 = 2.8

1.4 +5 = 0.28

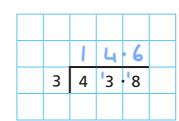
b) What is the same and what is different about the bar models and the divisions that they represent?

Discuss with a partner.

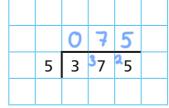
2 Complete the divisions.

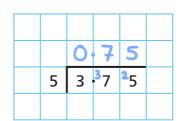
a)

	١	4	6	
3	4	' 3	۱8	

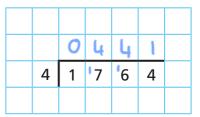


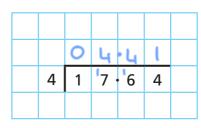
b)



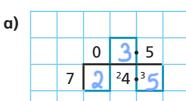


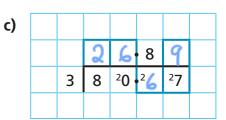
c)

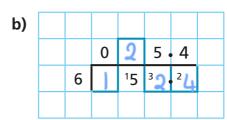


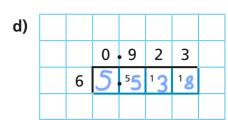


Work out the missing digits.









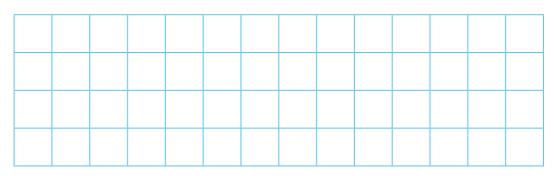
Explain the mistake that has been made in this short division.

The deaimal point is aligned

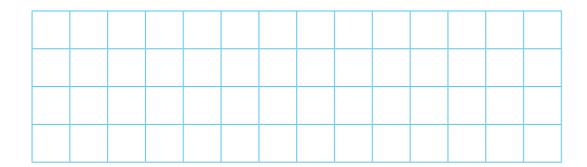
Work out the divisions.

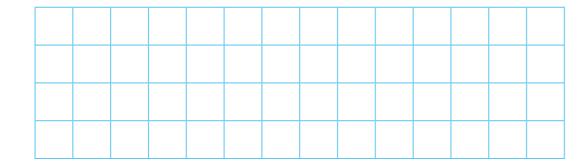
a)
$$0.738 \div 6 = \bigcirc \cdot (23)$$

b)
$$7.08 \div 3 = 2 \cdot 36$$



c)
$$7.14 \div 6 = | | \cdot | | | | | |$$





Work out the divisions.

Solve the equations.

a)
$$4f = 13.2$$

b)
$$5v = 21.24$$

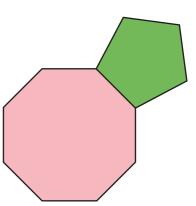
$$f = 3 \cdot 3$$

8 Find $\frac{3}{8}$ of 9.2 kg.

9 A shape is made up of a regular octagon and a regular pentagon.

The octagon has a perimeter of 29.76 m.

Find the perimeter of the whole shape.



32 children are going on a school trip to a theme park.

The total cost of the tickets is £360

The coach hire costs £175

How much should each child pay to go on the trip?

Show your full method.