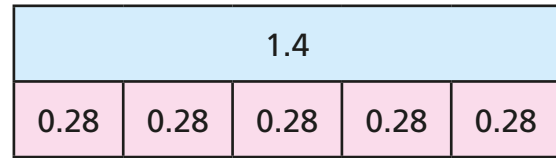
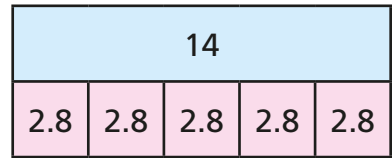


Formal methods: divide decimals

1



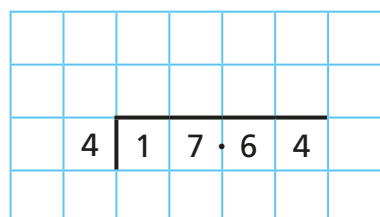
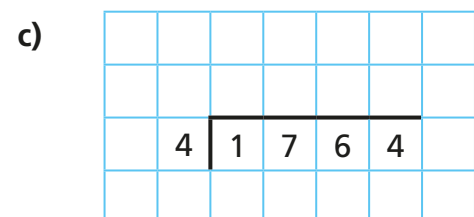
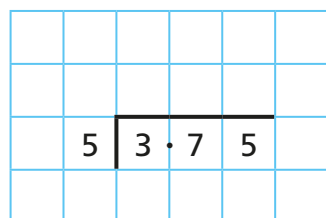
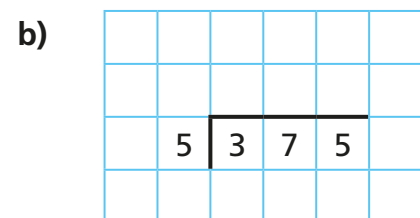
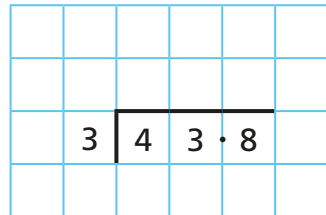
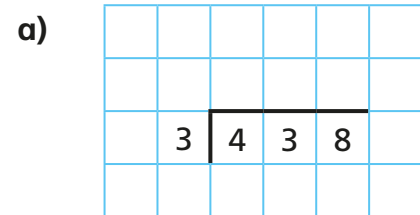
a) Write the division represented by each bar model.

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

Discuss with a partner.

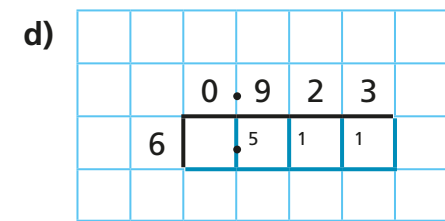
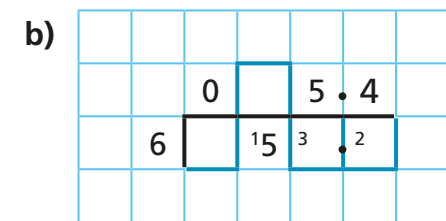
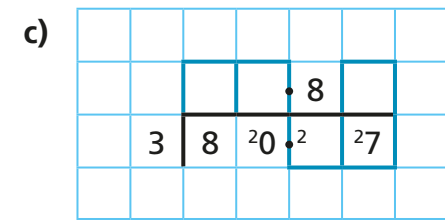
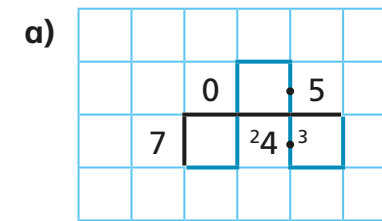
2

Complete the divisions.



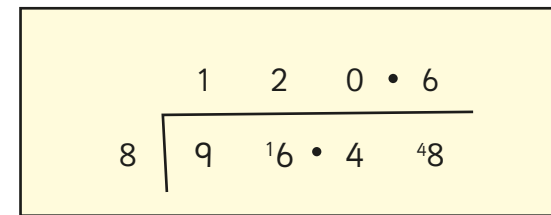
3

Work out the missing digits.



4

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

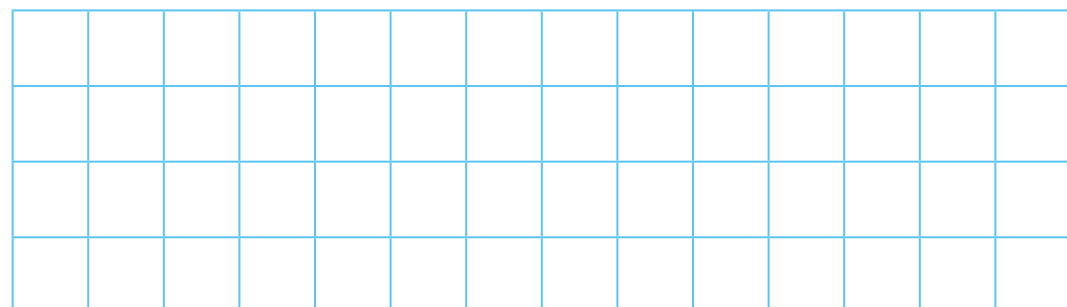


5

Work out the divisions.

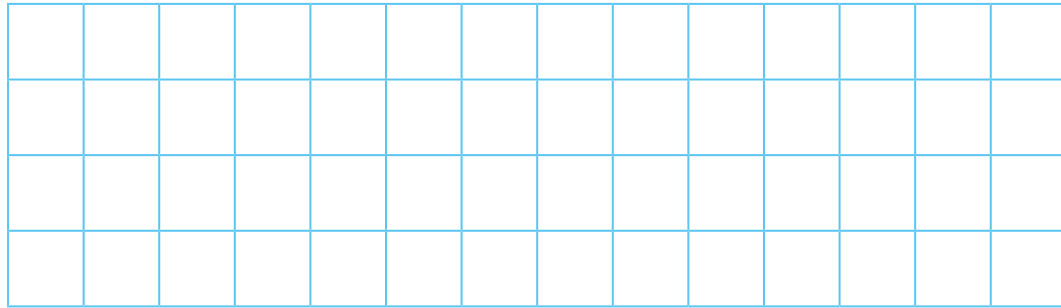
a) $0.738 \div 6 =$

b) $7.08 \div 3 =$



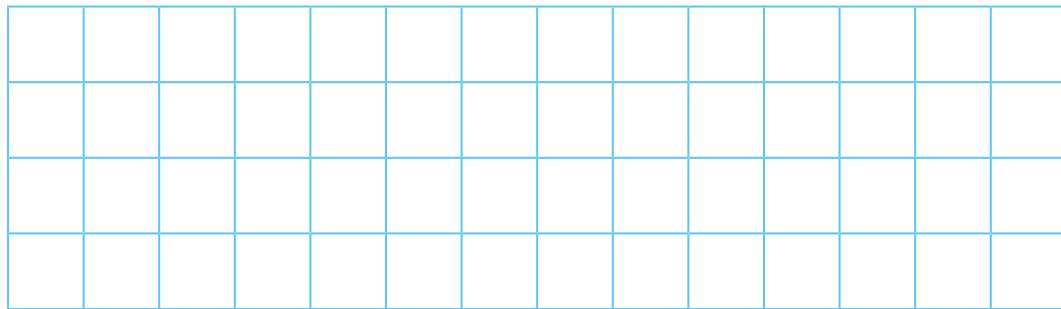
c) $7.14 \div 6 =$

e) $813.6 \div 9 =$



d) $8.23 \div 5 =$

f) $109.5 \div 6 =$



6 Work out the divisions.

a) $228.8 \div 16 =$

c) $640.92 \div 42 =$

b) $130.15 \div 25 =$

7 Solve the equations.

a) $4f = 13.2$

b) $5v = 21.24$

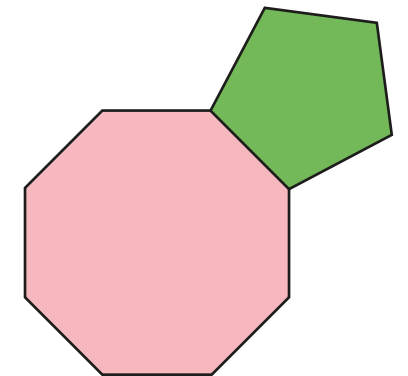
$f =$

$v =$

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

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.



perimeter = m

10 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.

£ per child