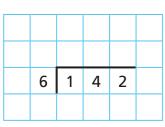
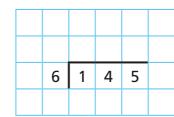
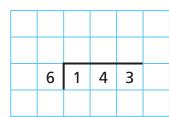
Formal methods: divide integers

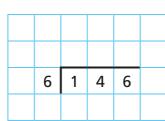


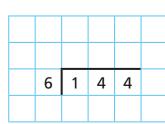
Here are some divisions.

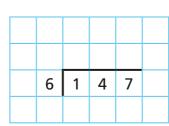




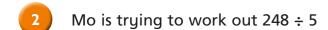








What is the same and what is different about the calculations?



I know the answer is not going to be a whole number.



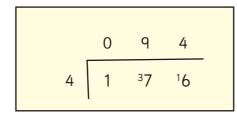
a) How does Mo know the answer is not going to be a whole number?



b) Work out 248 ÷ 5

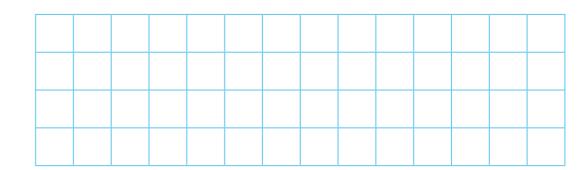
Write your answer in three different ways.

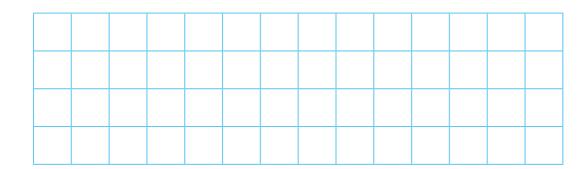
Teddy has worked out 176 ÷ 4

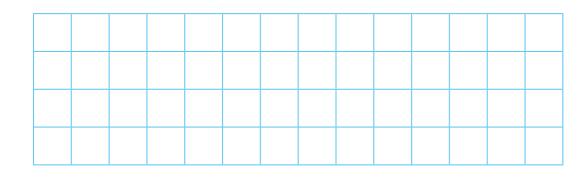


- a) What mistake has Teddy made?
- b) What is the correct answer?









5 a) Work out 85 ÷ 7

Give your answer to 3 decimal places.



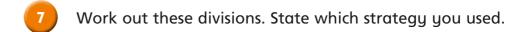
b) Write $\frac{85}{7}$ as a decimal to 3 decimal places.



- To divide a number by 12 you can divide by 6 then divide by 2
 - a) Use this method to work out $345 \div 12$



b) What other pair of one-digit numbers could be used instead of 6 and 2? How do you know?



8 Solve the equations.

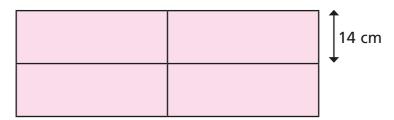
a)
$$4g = 167$$

b)
$$32w = 1,960$$

$$w =$$

9 Four identical rectangles are connected to form a larger rectangle.

The total area of the larger rectangle is 924 cm²



Find the perimeter of the larger rectangle.

cm

Discuss your strategy with a partner.

