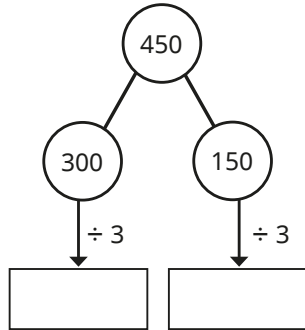
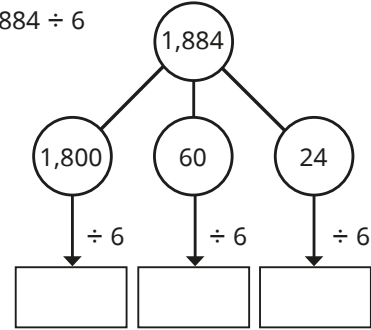


1 Use the part-whole models to help work out the divisions.

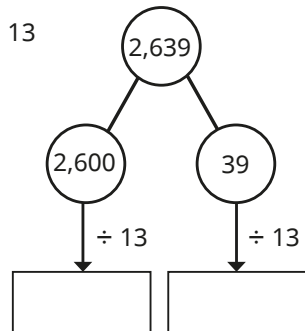
a)  $450 \div 3$



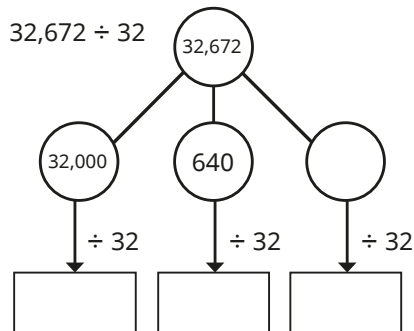
c)  $1,884 \div 6$



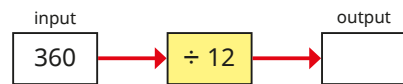
b)  $2,639 \div 13$



d)  $32,672 \div 32$



2 Complete the function machines.



What do you notice?

3 Sort the divisions into the table.

$984 \div 4$

$2,815 \div 4$

$68,000 \div 21$

$6,493 \div 6$

$68,000 \div 20$

$21,000,000 \div 7$

Solve with mental strategy	Solve with written method

Compare answers with a partner.

Work out the answer to each division using your chosen method.

4 Eggs are packed in boxes of either 8 or 12

There are 960 eggs.

All the eggs need to be packed into the same size boxes.

How many of each type of box are needed?

5 A coach can seat 24 people.

768 supporters are travelling to a rugby match by coach.

How many coaches are needed to transport all the supporters?

6



Dora

To divide by 8, I can divide by 2, divide by 2 again and divide by 2 again.



Tiny

To divide by 6, I can divide by 2, divide by 2 again and divide by 2 again.

Who do you agree with?

Explain your reasons to a partner.

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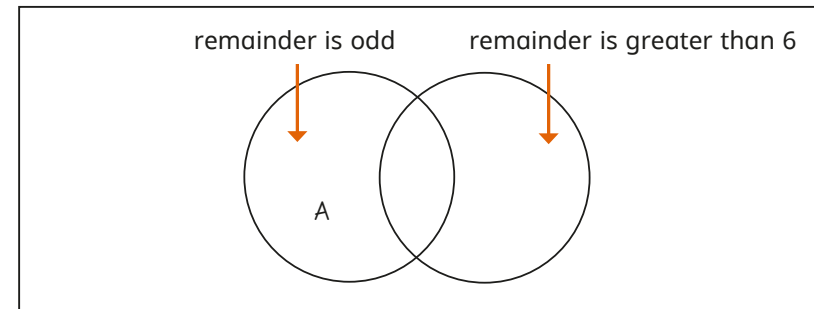
Who do you agree with?

Explain your reasons to a partner.

7 Label the sorting diagram with the divisions.

The first one has been done for you.

- A  $901 \div 16$     C  $910 \div 16$     E  $901 \div 17$     G  $910 \div 17$   
 B  $902 \div 16$     D  $920 \div 16$     F  $902 \div 17$     H  $920 \div 17$



8

1	2	3	4	5
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Use each digit card once to complete the division in different ways.

$$\square \square \square \div \square \square$$

Experiment to find divisions that give:

- a) the smallest possible remainder
- b) the greatest possible remainder
- c) a remainder that is a multiple of 5

Compare answers with a partner.