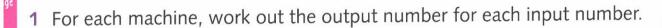
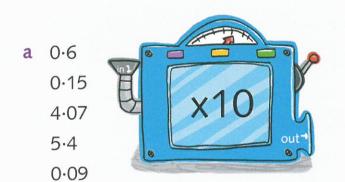
nit 8, Week 2, Lesson I

## ividing decimals using mental methods and the ormal written method

Use mental methods to divide a decimal by a 1-digit number Use the formal written method of short division to divide a decimal by a 1-digit number

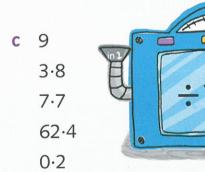




0.04 6.3 1.08 0.17

4.92







2 Malik answered each of these calculations incorrectly. Copy each calculation and write the correct answer.

**a** 
$$0.3 \times 10 = 30$$
 X

**b** 
$$5.08 \times 10 = 58 \text{ X}$$

c 
$$34.8 \times 100 = 348$$
 X

d 
$$18 \div 100 = 1.8 \times$$

$$34.8 \times 100 = 348$$

**d** 
$$18 \div 100 = 1.8 \text{ X}$$

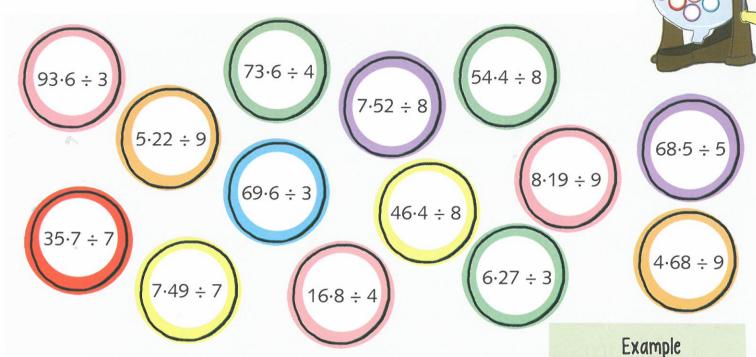
e 
$$43.7 \div 10 = 0.437$$
 X

$$g \ 4.1 \div 10 = 41 \ X$$

$$k \ 34 \div 100 = 0.034 \ \text{X}$$

$$1.0.01 \times 100 = 0.1$$
 X

1 Sort the calculations into two groups: those you can work out using mental methods and those where you need to use a written method.



2 Work out the answer to each calculation in Question 1. For the calculations that need a written method, use the formal written method of short division. Remember to estimate the answer first.

## $27.6 \div 6 \rightarrow 30 \div 6 = 5$ TO·th

You will need:

1-10 dice

• 0-9 or

Play this game with a partner. Take turns to:

- Choose a number from below and write it down (you can only choose each number once).
- Roll the dice.
- Divide your chosen number by the number on the dice. Choose the most appropriate method to calculate the answer: mental or written.
- Write the calculation and the answer to 2 decimal places. Show any working out.

The person with the smallest answer scores one point. The first person to score five points is the winner.





















