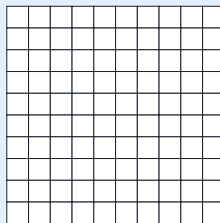


Percentages as fractions and decimals

MODULE 3 · FRACTIONS, DECIMALS AND PERCENTAGES NUMBER

Per cent means 'out of 100'. A percentage is a fraction over 100 and a decimal in hundredths.



→ $45\% = 45/100 = 0.45$.

→ $7\% = 0.07$; $100\% = \text{the whole}$.

HOW TO ANSWER TODAY

- Fraction · decimal · %.** Divide top by bottom to get a decimal. Multiply a decimal by 100 to get a percent. Write fractions in lowest terms.

$$1/4 = 0.25 = 25\% \quad 0.6 = 60\% = 3/5$$

MATCH-UP

Match each percentage to its decimal.

a. 25%

b. 5%

c. 50%

d. 7%

e. 100%

1. 0.07

2. 0.5

3. 1.0

4. 0.25

5. 0.05

PRACTICE

- On the way home from the school tour to the Cliffs of Moher, Aoife colours in a 10×10 grid in her copybook to show how much of the journey is finished. She wants to shade **18%** of the **100** small squares. How many squares should she shade?
- On sports day, Cian's 5th class is making a 10×10 grid poster to track how many pupils have finished their events. They want to shade **18%** of the **100** small squares to show the first group home from the relay. How many small squares should they shade?

CHALLENGE

- On the school nature walk through the local park, 5th class spot a 10×10 grid of trees, with **100** trees in total. They want to mark **97%** of the trees with a small ribbon to count them. How many of the **100** trees should they mark?
 To shade 97% of a 10×10 grid, how many of the 100 small squares should you shade?
- On the school tour to the Cliffs of Moher, **75%** of 5th class bring a packed lunch from home. Write **75%** as a fraction in its lowest terms and as a decimal.