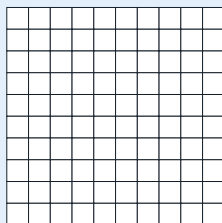


Finding a percentage of a quantity

MODULE 3 · FRACTIONS, DECIMALS AND PERCENTAGES NUMBER

To find a percentage of an amount, turn the percent into a fraction or decimal and **multiply**. Finding 10% then scaling is a handy mental route.



→ 25% of €60 = $\frac{1}{4} \times 60 = \text{€15}$.

→ 10% of 80 = 8, so 30% = **24**.

FIND 15% OF €80

① 10% of €80 = **€8**.

② 5% is half of that = **€4**.

③ 15% = €8 + €4 = **€12**.

HOW TO ANSWER TODAY

- **Percent of a quantity.** Find 10% first ($\div 10$) and build up, or find 1% ($\div 100$) and multiply.
20% of 50 → 10% of 50 = 5, $\times 2 = 10$
- **Discount / increase.** Work out the percent of the price, then take it off (discount) or add it on (increase).
€80 with 15% off → 15% of €80 = €12 → €80 - €12 = €68

WARM-UP

a. What is 10% of 160

b. What is 10% of 80

c. What is 50% of 160

d. What is 10% of 200

PRACTICE

- ① The corner shop near the school has **620** lollipops in a big jar by the till. The shopkeeper says **20%** of them are strawberry flavour. How many strawberry lollipops are in the jar?

What is 20% of 620?

- ② Saoirse and her cousins are buying a **€900** garden swing for their grandad's birthday. Saoirse's family agree to pay **20%** of the cost. How much does Saoirse's family pay?

What is 20% of 900?

SPOT THE MISTAKE

Maya finds 20% of €60:

$$10\% \text{ of } €60 = €6$$

$$20\% = €6$$

Find Maya's mistake. What is 20% of €60?