

# Finding a fraction of a quantity

MODULE 3 · FRACTIONS, DECIMALS AND PERCENTAGES NUMBER

To find a **fraction of a quantity**, remember '**of**' means **multiply**: divide by the bottom number, then multiply by the top.

→  $\frac{3}{4}$  of 20 →  $20 \div 4 = 5$ , then  $5 \times 3 = 15$ .

→  $\frac{2}{3}$  of 12 →  $12 \div 3 = 4$ , then  $4 \times 2 = 8$ .

|   |            |
|---|------------|
|   | $\times 2$ |
| 3 | 6          |

Total: 6 =

## FIND $\frac{3}{4}$ OF 20

- 'Of' means multiply, so work out  $\frac{3}{4}$  of 20.
- Divide by the bottom:  $20 \div 4 = 5$ .
- Multiply by the top:  $5 \times 3 = 15$ .

## HOW TO ANSWER TODAY

- Fraction of a quantity.** Divide the quantity by the bottom number (denominator). Multiply by the top number (numerator).

$\frac{3}{5}$  of 20 →  $20 \div 5 = 4$ ,  $\times 3 = 12$

## WARM-UP

a. What is  $\frac{1}{3}$  of 27b. What is  $\frac{1}{10}$  of 50c. What is  $\frac{1}{2}$  of 10d. What is  $\frac{1}{3}$  of 36

## PRACTICE

- 48** pupils from 5th class travel to the Burren in Clare on a coach trip.  $\frac{2}{3}$  of the pupils bring a packed lunch from home. How many pupils bring a packed lunch?

What is  $\frac{2}{3}$  of 48?

- The school canteen has **39** cartons of milk in the fridge at the start of lunch. By the end of the lunch break,  $\frac{2}{3}$  of the cartons have been sold. How many cartons have been sold?

What is  $\frac{2}{3}$  of 39?

## CHALLENGE

- 5th class are making **95** sandwiches for their school picnic at the Cliffs of Moher.  $\frac{3}{5}$  of the sandwiches are ham and cheese. How many ham and cheese sandwiches are there?

What is  $\frac{3}{5}$  of 95?

- There are **132** pupils in 5th and 6th class altogether at the school in Galway. On Monday morning the teachers note that  $\frac{7}{12}$  of the pupils have signed up for the Cumann na mBunscol blitz on Friday. How many pupils have signed up?

What is  $\frac{7}{12}$  of 132?