

**TARGET** To find fractions of numbers and quantities.

**Examples**

$$\frac{1}{8} \text{ of } 72 = 72 \div 8 \\ = 9$$

$$\frac{5}{8} \text{ of } 72 = (72 \div 8) \times 5 \\ = 9 \times 5 \\ = 45$$

$$\frac{7}{10} \text{ of } 200 \text{ m} = (200 \div 10) \times 7 \\ = 20 \text{ m} \times 7 \\ = 140 \text{ m}$$

## A

Find one half of:

- |      |        |
|------|--------|
| 1 22 | 5 14   |
| 2 16 | 6 80   |
| 3 28 | 7 26   |
| 4 30 | 8 100. |

Find one tenth of:

- |        |           |
|--------|-----------|
| 9 60p  | 13 30 cm  |
| 10 20p | 14 80 cm  |
| 11 70p | 15 100 cm |
| 12 40p | 16 50 cm. |

Find one fifth of:

- |         |         |
|---------|---------|
| 17 20 m | 21 £40  |
| 18 45 m | 22 £25  |
| 19 30 m | 23 £35  |
| 20 15 m | 24 £50. |

- 25 Dionne has £20. She spends one quarter of her money in one shop and one fifth in another.

- How much does she spend in each shop?
- How much does she have left?

- 26 A doctor sees 24 people at a surgery. Half are women. One third are men. How many of the doctors' patients are children?

## B

Work out

- |                       |                        |
|-----------------------|------------------------|
| 1 $\frac{1}{3}$ of 12 | 5 $\frac{1}{10}$ of 60 |
| 2 $\frac{2}{3}$ of 12 | 6 $\frac{7}{10}$ of 60 |
| 3 $\frac{1}{4}$ of 20 | 7 $\frac{1}{8}$ of 24  |
| 4 $\frac{3}{4}$ of 20 | 8 $\frac{3}{8}$ of 24  |

Find

- |                          |                           |
|--------------------------|---------------------------|
| 9 $\frac{2}{3}$ of 18p   | 13 $\frac{3}{4}$ of 32 kg |
| 10 $\frac{4}{5}$ of 20p  | 14 $\frac{4}{7}$ of 49 kg |
| 11 $\frac{5}{6}$ of 12 m | 15 $\frac{9}{10}$ of £100 |
| 12 $\frac{2}{9}$ of 45 m | 16 $\frac{7}{8}$ of £24   |

Find

- $\frac{3}{10}$  of 500 ml
- $\frac{7}{10}$  of 20 cm
- $\frac{11}{100}$  of 1000 g
- $\frac{5}{100}$  of £700
- There are 36 passengers on a bus. Four ninths are upstairs. How many passengers are:
  - upstairs
  - downstairs?
- There are 30 children at a party. Two fifths drink cola. One third drink orange. How many children drink:
  - cola
  - orange
  - other drinks?

## C

Find

- $\frac{3}{4}$  of £2.00
- $\frac{5}{6}$  of £1.50
- $\frac{2}{5}$  of £3.00
- $\frac{2}{3}$  of £2.70
- $\frac{3}{10}$  of 2 metres
- $\frac{53}{100}$  of 1 metre
- $\frac{7}{10}$  of 3 litres
- $\frac{21}{100}$  of 5 litres
- $\frac{9}{10}$  of £7.50
- $\frac{2}{100}$  of £265
- $\frac{3}{10}$  of 1.5 kg
- $\frac{49}{100}$  of 2 kg
- There are 48 children in Year 4. Three eighths of the children walk to school. One third come by car. The rest cycle. How many cycle to school?
- Six sevenths of the shops in the High Street are open. Nine shops are closed. How many shops are there in the High Street?