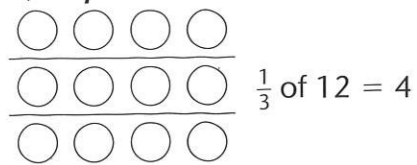


**TARGET** To find fractions of a set of objects and quantities.

Examples



$$\frac{1}{4} \text{ of } 28 = 28 \div 4 = 7$$

$$\frac{3}{4} \text{ of } 28 = (28 \div 4) \times 3 = 7 \times 3 = 21$$

**A**

Use the diagram to help you find:

- 1  $\frac{1}{2}$  of 8
- 2  $\frac{1}{4}$  of 8
- 3  $\frac{1}{3}$  of 15
- 4  $\frac{1}{5}$  of 15
- 5  $\frac{1}{2}$  of 6
- 6  $\frac{1}{3}$  of 6
- 7  $\frac{1}{3}$  of 12
- 8  $\frac{1}{4}$  of 12
- 9  $\frac{1}{2}$  of 18
- 10  $\frac{1}{3}$  of 18
- 11  $\frac{1}{6}$  of 18
- 12  $\frac{1}{4}$  of 20
- 13  $\frac{1}{5}$  of 20
- 14  $\frac{1}{2}$  of 20
- 15 Draw a diagram to help you find:
  - a)  $\frac{1}{4}$  of 16
  - b)  $\frac{1}{8}$  of 16
  - c)  $\frac{1}{2}$  of 16

**B**

Copy and complete.

- 1  $\frac{1}{3}$  of 24 =  $24 \div 3$   
=
- 2  $\frac{1}{5}$  of 30 =   $\div 5$   
=
- 3  $\frac{1}{2}$  of 18 =  $18 \div$    
=
- 4  $\frac{1}{4}$  of 32 =   $\div 4$   
=
- 5  $\frac{1}{10}$  of 50 =   $\div$    
=
- 6  $\frac{1}{8}$  of 24 =   $\div$    
=

Work out

- 7  $\frac{1}{5}$  of 25 cm
- 8  $\frac{1}{2}$  of 40 g
- 9  $\frac{1}{4}$  of 24 litres
- 10  $\frac{1}{3}$  of 30p
- 11  $\frac{1}{10}$  of 70 m
- 12  $\frac{1}{6}$  of 30 seconds
- 13  $\frac{1}{3}$  of 27 kg
- 14  $\frac{1}{5}$  of 40 mm
- 15  $\frac{1}{8}$  of £32
- 16  $\frac{1}{4}$  of 60 minutes

**C**

Copy and complete.

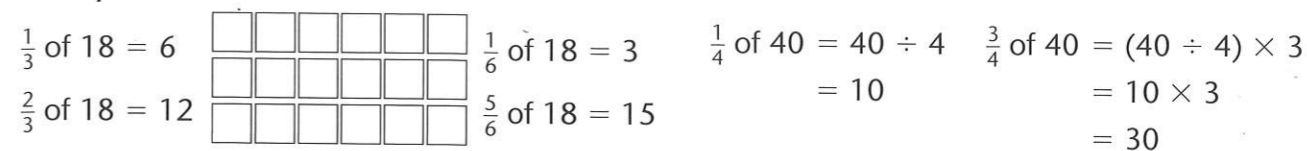
- 1  $\frac{3}{4}$  of 16 =  $(16 \div 4) \times 3$   
=   $\times 3$   
=
- 2  $\frac{9}{10}$  of 50 =  $(50 \div 10) \times 9$   
=   $\times$    
=
- 3  $\frac{5}{6}$  of 36 =  $(36 \div 6) \times 5$   
=   $\times$    
=
- 4  $\frac{3}{8}$  of 40 =  $(40 \div 8) \times$    
=   $\times$    
=

Work out

- 5  $\frac{2}{3}$  of £24
- 6  $\frac{3}{5}$  of 50p
- 7  $\frac{7}{10}$  of 80 m
- 8  $\frac{4}{9}$  of 45 kg
- 9  $\frac{5}{6}$  of 5.4 cm
- 10  $\frac{7}{8}$  of £16
- 11  $\frac{3}{4}$  of 36p
- 12  $\frac{6}{7}$  of 210 m
- 13  $\frac{4}{5}$  of 100g
- 14  $\frac{2}{9}$  of £7.20

**TARGET** To find fractions of a set of objects and amounts.

Examples



**A**

Use the squares to help you find:

- 1  $\frac{1}{2}$  of 6
  - 2  $\frac{1}{3}$  of 6
  - 3  $\frac{1}{3}$  of 15
  - 4  $\frac{1}{5}$  of 15
  - 5  $\frac{1}{2}$  of 12
  - 6  $\frac{1}{3}$  of 12
  - 7  $\frac{1}{4}$  of 12
  - 8  $\frac{1}{4}$  of 20
  - 9  $\frac{1}{5}$  of 20
  - 10  $\frac{1}{2}$  of 20
  - 11  $\frac{1}{4}$  of 24
  - 12  $\frac{1}{6}$  of 24
  - 13  $\frac{1}{2}$  of 24
- Find
- 14  $\frac{1}{2}$  of 18
  - 15  $\frac{1}{3}$  of 9
  - 16  $\frac{1}{5}$  of 10
  - 17  $\frac{1}{10}$  of 100
  - 18  $\frac{1}{4}$  of 32
  - 19  $\frac{1}{6}$  of 30

**B**

Look at the squares in Section A. Work out

- 1 a)  $\frac{1}{3}$  of 6  
b)  $\frac{2}{3}$  of 6
- 2 a)  $\frac{1}{5}$  of 15  
b)  $\frac{3}{5}$  of 15
- 3 a)  $\frac{1}{4}$  of 12  
b)  $\frac{3}{4}$  of 12
- 4 a)  $\frac{1}{5}$  of 20  
b)  $\frac{4}{5}$  of 20
- 5 a)  $\frac{1}{6}$  of 24  
b)  $\frac{5}{6}$  of 24
- 6 a)  $\frac{1}{3}$  of 24  
b)  $\frac{2}{3}$  of 24

Find  $\frac{1}{5}$  of:

- 7 30
- 8 25
- 9 50
- 10 35

Find  $\frac{1}{4}$  of:

- 15 8
- 16 16
- 17 28
- 18 36

Find  $\frac{1}{3}$  of:

- 11 18
- 12 60
- 13 36
- 14 27

Find  $\frac{1}{10}$  of:

- 19 40
- 20 120
- 21 300
- 22 750

**C**

Find

- 1  $\frac{3}{4}$  of 24
- 2  $\frac{2}{3}$  of 21
- 3  $\frac{4}{5}$  of 45
- 4  $\frac{1}{8}$  of 48
- 5  $\frac{7}{10}$  of 60
- 6  $\frac{5}{8}$  of 32
- 7  $\frac{3}{10}$  of 200
- 8  $\frac{2}{3}$  of 60
- 9  $\frac{3}{4}$  of 100
- 10  $\frac{2}{5}$  of 100
- 11  $\frac{9}{10}$  of 500
- 12  $\frac{1}{100}$  of 1000
- 13 There are 30 children in a class. Nine tenths are present. How many children are absent?
- 14 There are 24 bottles in a crate. Two thirds are empty. How many bottles are not empty?
- 15 There are 56 pills in a packet. Three eighths have been taken. How many are left?