

TARGET To calculate fractions and percentages of amounts.

Examples

$$\frac{1}{12} \text{ of } 600$$

$$600 \div 12$$

$$50$$

$$\frac{5}{12} \text{ of } 600$$

$$\left(\frac{1}{12} \text{ of } 600\right) \times 5$$

$$50 \times 5$$

$$250$$

$$10\% \text{ of } 350$$

$$\frac{1}{10} \text{ of } 350$$

$$35$$

$$70\% \text{ of } 350$$

$$(10\% \text{ of } 350) \times 7$$

$$35 \times 7$$

$$245$$

$$1\% \text{ of } 350$$

$$\frac{1}{100} \text{ of } 350$$

$$350 \div 100$$

$$3.5$$

A

Find:

- 1 $\frac{1}{3}$ of 18
- 2 $\frac{1}{5}$ of 35
- 3 $\frac{1}{6}$ of 24
- 4 $\frac{1}{4}$ of 36
- 5 $\frac{1}{8}$ of 40
- 6 $\frac{2}{3}$ of 24
- 7 $\frac{2}{5}$ of 15
- 8 $\frac{3}{4}$ of 16
- 9 $\frac{5}{6}$ of 36
- 10 $\frac{4}{7}$ of 28
- 11 10% of 30
- 12 10% of 150
- 13 10% of 80
- 14 10% of £1.00
- 15 10% of 500 cm
- 16 20% of 40
- 17 30% of 200
- 18 50% of 36
- 19 30% of 50
- 20 25% of 24

B

Work out:

- 1 $\frac{3}{4}$ of 32
- 2 $\frac{2}{3}$ of 21
- 3 $\frac{4}{5}$ of 100
- 4 $\frac{5}{8}$ of 64
- 5 $\frac{3}{7}$ of 42
- 6 $\frac{7}{9}$ of 45
- 7 20% of 90
- 8 30% of 140
- 9 5% of 520
- 10 75% of 480
- 11 40% of 250
- 12 1% of 110
- 13 Fifty 5 year olds were asked if they believed in Father Christmas. Three fifths said yes. 30% said no. How many were *don't knows*?
- 14 There are 80 straws in a box. 60% are used. How many are left?
- 15 Ninety children were asked if they have any brothers or sisters. Five ninths have at least one sister. 20% have no sister but at least one brother. How many children have neither brother nor sister?
- 16 A cinema has 400 seats. At the first screening of a film 78% of the seats were filled. At the second screening thirteen sixteenths were filled. Which screening had the bigger audience, and by how many?

C

Work out:

- 1 $\frac{5}{6}$ of 180
- 2 $\frac{3}{8}$ of 400
- 3 $\frac{2}{7}$ of 6.3
- 4 $\frac{7}{12}$ of 600
- 5 $\frac{8}{15}$ of 90
- 6 $\frac{49}{50}$ of 1000
- 7 4% of 150
- 8 15% of 280
- 9 2.5% of 5000
- 10 7% of 40
- 11 95% of 600
- 12 21% of 500
- 13 There are 3700 books in a library. 21% of them are out on loan. How many books are on the shelves?
- 14 A town has a population of 24 000. Three eighths are women. 35% are men. How many children live in the town?
- 15 The School Choir consists of 25% of the children in the school. 135 children are not in the choir. How many children are there in the school?
- 16 There were 12 600 runners registered to take part in a marathon. 3% were injured in training and unable to take part. One ninth dropped out during the race. How many runners completed the course?