

**TARGET** To connect multiplication by a fraction to finding fractions of whole numbers.

*Examples*

$$\frac{3}{5} \text{ of } 30 = (30 \div 5) \times 3 \quad \text{or} \quad \frac{3}{5} \times 30 = \frac{90}{5} = 18$$

What number is  $1\frac{3}{5}$  times larger than 30?

$$1\frac{3}{5} = \frac{8}{5} \quad \frac{8}{5} \times 30 = \frac{240}{5} = 48$$

or

$$\frac{8}{5} \text{ of } 30 = (30 \div 5) \times 8 = 6 \times 8 = 48$$

**A**

Find

- 1  $\frac{1}{5}$  of 30
- 2  $\frac{1}{4}$  of 28
- 3  $\frac{1}{8}$  of 40
- 4  $\frac{1}{3}$  of 27
- 5  $\frac{1}{10}$  of 50
- 6  $\frac{1}{6}$  of 24
- 7  $\frac{1}{9}$  of 18
- 8  $\frac{1}{7}$  of 70
- 9  $\frac{1}{12}$  of 36
- 10  $\frac{1}{10}$  of 110
- 11  $\frac{1}{4}$  of 20
- 12  $\frac{3}{4}$  of 20
- 13  $\frac{1}{5}$  of 40
- 14  $\frac{2}{5}$  of 40
- 15  $\frac{1}{10}$  of 60
- 16  $\frac{9}{10}$  of 60
- 17  $\frac{1}{6}$  of 42
- 18  $\frac{5}{6}$  of 42

**B**

Work out

- 1  $\frac{2}{3}$  of 18
- 2  $\frac{3}{4}$  of 32
- 3  $\frac{2}{5}$  of 45
- 4  $\frac{5}{6}$  of 60
- 5  $\frac{4}{7}$  of 28
- 6  $\frac{3}{8}$  of 56
- 7  $\frac{7}{9}$  of 81
- 8  $\frac{9}{10}$  of 20
- 9  $\frac{6}{11} \times 55$
- 10  $\frac{5}{12} \times 96$
- 11  $\frac{2}{100} \times 400$
- 12  $\frac{3}{5} \times 60$
- 13  $\frac{3}{10} \times 200$
- 14  $\frac{7}{8} \times 24$
- 15  $\frac{4}{9} \times 45$
- 16  $\frac{2}{7} \times 42$

Find the number which is:

- 17  $1\frac{1}{2}$  times greater than 50
- 18  $1\frac{2}{3}$  times greater than 24
- 19  $2\frac{1}{4}$  times greater than 48
- 20  $2\frac{2}{5}$  times greater than 20
- 21  $3\frac{1}{6}$  times greater than 18
- 22  $1\frac{7}{10}$  times greater than 100
- 23  $2\frac{5}{8}$  times greater than 48
- 24  $4\frac{3}{4}$  times greater than 20
- 25  $1\frac{4}{5}$  times greater than 40
- 26  $2\frac{1}{3}$  times greater than 36.

**C**

Work out

- 1  $\frac{3}{5}$  of 35
- 2  $\frac{6}{7}$  of 8.4
- 3  $\frac{7}{12}$  of 1440
- 4  $\frac{9}{10}$  of 210
- 5  $\frac{3}{4}$  of 200
- 6  $\frac{2}{9}$  of 5.4
- 7  $\frac{5}{6}$  of 480
- 8  $\frac{3}{8}$  of 3200
- 9  $\frac{21}{100} \times 50$
- 10  $\frac{2}{3} \times 270$
- 11  $\frac{8}{11} \times 9.9$
- 12  $\frac{5}{7} \times 2100$
- 13  $\frac{7}{10} \times 4$
- 14  $\frac{5}{9} \times 360$
- 15  $\frac{11}{12} \times 6000$
- 16  $\frac{3}{100} \times 16$

Find the number which is:

- 17  $1\frac{5}{6}$  times larger than 540
- 18  $4\frac{1}{2}$  times larger than 14
- 19  $2\frac{1}{3}$  times larger than 150
- 20  $6\frac{2}{5}$  times larger than 25
- 21  $1\frac{4}{11}$  times larger than 3300
- 22  $1\frac{5}{8}$  times larger than 96
- 23  $3\frac{2}{10}$  times larger than 250
- 24  $2\frac{1}{4}$  times larger than 60
- 25  $1\frac{7}{9}$  times larger than 72
- 26  $4\frac{3}{7}$  times larger than 49.