

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

Examples

$$\begin{aligned} \frac{3}{5} \text{ of } 30 &= (30 \div 5) \times 3 & \text{ or } & \frac{3}{5} \times 30 = \frac{90}{5} \\ &= 6 \times 3 & & = 18 \\ &= 18 \end{aligned}$$

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

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

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 | 9 $\frac{6}{11} \times 55$ |
| 2 $\frac{3}{4}$ of 32 | 10 $\frac{5}{12} \times 96$ |
| 3 $\frac{2}{5}$ of 45 | 11 $\frac{2}{100} \times 400$ |
| 4 $\frac{5}{6}$ of 60 | 12 $\frac{3}{5} \times 60$ |
| 5 $\frac{4}{7}$ of 28 | 13 $\frac{3}{10} \times 200$ |
| 6 $\frac{3}{8}$ of 56 | 14 $\frac{7}{8} \times 24$ |
| 7 $\frac{7}{9}$ of 81 | 15 $\frac{4}{9} \times 45$ |
| 8 $\frac{9}{10}$ of 20 | 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 | 9 $\frac{21}{100} \times 50$ |
| 2 $\frac{6}{7}$ of 8.4 | 10 $\frac{2}{3} \times 270$ |
| 3 $\frac{7}{12}$ of 1440 | 11 $\frac{8}{11} \times 9.9$ |
| 4 $\frac{9}{10}$ of 210 | 12 $\frac{5}{7} \times 2100$ |
| 5 $\frac{3}{4}$ of 200 | 13 $\frac{7}{10} \times 4$ |
| 6 $\frac{2}{9}$ of 5.4 | 14 $\frac{5}{9} \times 360$ |
| 7 $\frac{5}{6}$ of 480 | 15 $\frac{11}{12} \times 6000$ |
| 8 $\frac{3}{8}$ of 3200 | 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.