

M1.1**DO NOT USE A CALCULATOR****1** Work out

- (a) $4 \times 7 + 3$ (b) $5 \times 12 + 1$ (c) $7 \times 11 + 4$
(d) $3 \times (2 + 9)$ (e) $4 \times (18 - 15)$ (f) $11 \times (13 - 2)$
(g) $(8 - 3) \times (9 - 2)$ (h) $(18 - 12) \times (17 - 11)$ (i) $(15 - 2)^2$

2 Find the value of each calculation below:

- (a) $\frac{5 \times 7 + 1}{12}$ (b) $\frac{2 \times 3 + 5 \times 7}{45 - 2 \times 2}$ (c) $\frac{(13 + 2) \times (5 - 2)}{3^2}$
(d) $\frac{(13 + 5) \times (12 - 9)}{5 \times 4 - 7 \times 2}$ (e) $\frac{11^2 - 1}{3 \times 4 \times 5}$ (f) $\frac{12^2 - 9^2}{3^2}$

3 Work out

- (a) 37×46 (b) 246×42 (c) 57×318
(d) $782 \div 17$ (e) $1764 \div 28$ (f) $1224 \div 34$

4 Tom has to put 1000 bottles into crates. One crate will take 24 bottles. How many crates will Tom need?

5 How many 27p stamps can I buy with a £20 note?

6 Find the value of $8 \times 8 \times 8 \times 8$.

7 Write down the answer to each of the following:

- (a) $9 - 3.07$ (b) 0.03×0.5 (c) 0.9×0.003 (d) 0.1^2
(e) 0.04×30 (f) $16 - 0.713$ (g) 0.21×0.6 (h) 0.3×500
(i) $0.63 \div 0.7$ (j) $14.98 \div 0.7$ (k) $0.57 \div 0.6$ (l) $0.496 \div 0.08$
(m) 0.28^2 (n) 31.6×0.27 (o) $0.065 \div 0.002$ (p) 0.48×3.77

8 Tom, Sally and Cherie club together to buy some flowers for their dear old Gran. The flowers cost £37.35. How much does each person pay?

9 A box of sweets contains 2.4 kg. How many packets can be filled from this box if each packet holds 0.15 kg?

10 Work out

- (a) $2\sqrt{25}$ (b) $\sqrt{36} + 3\sqrt{49}$ (c) $4\sqrt{121} - 5\sqrt{4}$
(d) $(2\sqrt{9} + 1)^2$ (e) $5\sqrt{4} + 3\sqrt{100}$ (f) $7\sqrt{9} - 2\sqrt{16}$
(g) $\frac{6\sqrt{4}}{\sqrt{9}}$ (h) $\frac{2\sqrt{9} + \sqrt{16}}{\sqrt{4} + \sqrt{9}}$ (i) $\frac{2\sqrt{100} + \sqrt{16}}{\sqrt{4} + 1}$
(j) $(\sqrt{225} - \sqrt{196})^2$ (k) $(\sqrt{49} + \sqrt{16})(\sqrt{49} - \sqrt{16})$ (l) $(\sqrt{169} - \sqrt{64})^2$