

Formulae

Formulae

5a. Match each box on the left to the correct label.

$$9 + 3y$$

formula

$$a = l \times w$$

expression

$$25 = 100 \div 4$$

calculation



VF

5b. Match each box on the left to the correct label.

$$27 - f$$

formula

$$35 \div 7 - 3 = 2$$

expression

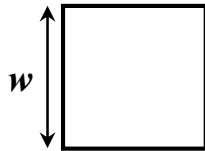
$$p = a + b + c$$

calculation



VF

6a. Work out the perimeter (p) of this shape using the formula $p = 4w$, if $w = 2.3\text{cm}$.

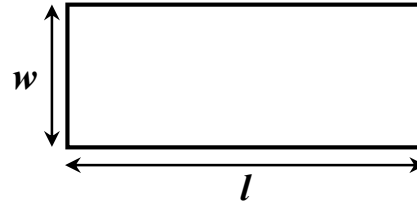


Not to scale



VF

6b. Work out the perimeter (p) of this shape using the formula $p = 2(w + l)$, if $w = 1.5\text{cm}$ and $l = 5.2\text{cm}$.



Not to scale



VF

7a. Circle the correct formula for finding a squared number.

$$a = 2b$$

$$a = b \times b$$

$$a = \frac{b}{2}$$



VF

7b. Circle the correct formula for finding $\frac{1}{4}$ of a number.

$$a = n \div 25$$

$$a = 0.25n$$

$$a = \frac{n}{25}$$



VF

8a. To calculate the price of a taxi (p), the firm decide to charge £0.75 per mile (m).

Expressed as the formula:

$$0.75m = p$$

If a journey is 8 miles, how much will a taxi cost?



VF

8b. When baking cupcakes, Sara needs half the amount of sugar (s) as flour (f).

Expressed as the formula:

$$s = \frac{f}{2}$$

How much sugar will she need if she uses 250g of flour?



VF

Formulae

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9a. Match each box on the left to the correct label.

$$5(b - c)$$

formula

$$v = w \times h \times d$$

expression

$$a = \pi \times r^2$$

calculation

$$72 = (12 \times 3) \times 2$$



VF

9b. Match each box on the left to the correct label.

$$a = (b \times h) \div 2$$

calculation

$$p = a + b + c$$

expression

$$3(a - 3)$$

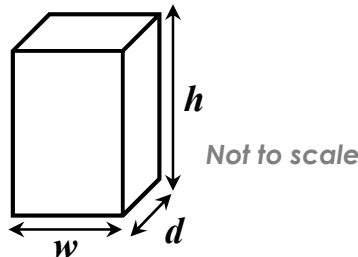
formula

$$-23 = 20 - 43$$



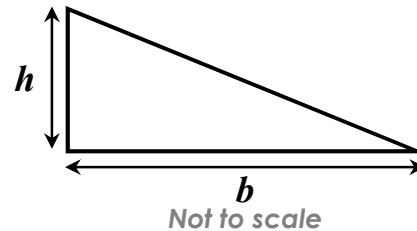
VF

10a. Work out the volume (v) of this cuboid using the formula $v = w \times h \times d$, if $w = 3\text{cm}$, $h = 5.5\text{cm}$ and $d = 2\text{cm}$.



VF

10b. Work out the area (a) of this shape using the formula $a = (b \times h) \div 2$, if $b = 5\text{cm}$ and $h = 3.2\text{cm}$.



VF

11a. Circle the correct formula for doubling a number and finding 45%.

$$a = 2n \times 0.45$$

$$a = n \times 2.45$$

$$a = \frac{2n}{0.45}$$



VF

11b. Circle the correct formula for finding 125% of a number.

$$a = n \div 12.5$$

$$a = 0.125n$$

$$a = n + 0.25n$$



VF

12a. To calculate the BMI of a person, you can use their weight in kilograms and height in metres.

Expressed as the formula:

$$b = \frac{w}{h^2}$$

If someone is 2m tall (h) and weighs 92 kg (w), what is their BMI?



VF

12b. To work out the speed of a travelling car, you can use the distance in miles and the time in hours.

Expressed as the formula:

$$s = \frac{d}{t}$$

If a car travels 12 miles (d) in 30 minutes (t), what speed was it travelling at?



VF