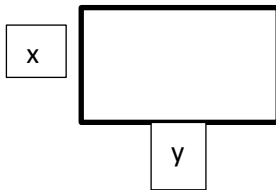




Starter:



Write an expression for the:

1. Area of the rectangle
2. Perimeter of the rectangle

Top tips!

- You don't need an equals sign when forming an expression
e.g. if there's x buttons on a shirt there will be $6x$ buttons on 6 shirts.
- Substitution means writing a number instead of a letter:

e.g. if $x = -4$ calculate the value of:

$$6 - x^3$$

$$6 - (-4)^3$$

$$6 - -64$$

$$6 + 64$$

$$= \underline{70}$$

Skills:

1. The following formula is used to calculate the cost of hiring a taxi:

$$\text{Total cost} = \text{£}1.50 \times \text{Number of miles} + \text{£}2.60$$

- a) How much would a 20 mile journey cost?
- b) If the total cost is £13.10, how far was the journey?

2. If $a = 5$, $b = -3$ & $c = 4$. Calculate the value of:

$$3a - 2b$$

$$2b^2$$

$$(2b)^2$$

Cwestiwn Arholiad:

2012 January Applications Unit 1 Higher Tier C1

Write down expressions for each of the following.

- (a) The total cost of 10 pencils at g pence each and 5 pens at h pence each. [2]

- (b) The mean height of the three boys listed below. [2]

| Name | Height in cm |
|--------|--------------|
| Adam | x |
| Tommy | y |
| Joseph | z |

- (b) The perimeter of a rectangle with length l cm and width w cm. [2]

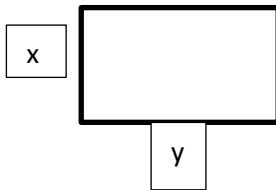
- (d) The smaller share when £ q is shared in the ratio 1:3. [2]

Asesu ar gyfer Dysgu

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Starter:



Write an expression for the:

- Area of the rectangle xy
- Perimeter of the rectangle
 $x + y + x + y = 2x + 2y$

Top tips!

- You don't need an equals sign when forming an expression
e.g. if there's x buttons on a shirt there will be $6x$ buttons on 6 shirts.
- Substitution means writing a number instead of a letter:

e.g. if $x = -4$ calculate the value of:

$$6 - x^3$$

$$6 - (-4)^3$$

$$6 - -64$$

$$6 + 64$$

$$= \underline{70}$$

Skills:

- The following formula is used to calculate the cost of hiring a taxi:

$$\text{Total cost} = \text{£}1.50 \times \text{Number of miles} + \text{£}2.60$$

a) How much would a 20 mile journey cost? **£32.60**

b) If the total cost is £13.10, how far was the journey?

$$13.10 = 1.50 \times ? + 2.60$$

$$13.10 - 2.60 = 1.50 \times ?$$

$$\frac{10.50}{1.50} = ?$$

$$? = \text{£}7$$

- If $a = 5$, $b = -3$ & $c = 4$. Calculate the value of:

| $3a - 2b$ | $2b^2$ | $(2b)^2$ |
|--------------------------------|-------------------|-------------------|
| $(3 \times 5) - (2 \times -3)$ | $2 \times (-3)^2$ | $(2 \times -3)^2$ |
| $= 15 - -6$ | $= 2 \times 9$ | $= (-6)^2$ |
| $= 15 + 6$ | $= 18$ | $= 36$ |
| $= 21$ | | |

Cwestiwn Arholiad:

2012 January Applications Unit 1 Higher Tier C1

Write down expressions for each of the following.

(c) The total cost of 10 pencils at g pence each and 5 pens at h pence each. [2] **$10g + 5h$**

(b) The mean height of the three boys listed below. [2]

| Name | Height in cm |
|--------|--------------|
| Adam | x |
| Tommy | y |
| Joseph | z |

$$\frac{x + y + z}{3}$$

(d) The perimeter of a rectangle with length l cm and width w cm. [2] **$l + w + l + w = 2l + 2w$**

(d) The smaller share when £ q is shared in the ratio 1:3. [2] **$\frac{q}{4}$**

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