

Intermediate Numeracy Sam 2 P2 Q6b

(b) Make c the subject of the formula.

$$9c + 160 = 5f$$

[2]

Intermediate Numeracy Nov 2016 P2 Q7a

(a) The Headteacher of Ysgol Bro Gwyn investigates building a new bike shed.

Bike sheds are built on a rectangular base of width x metres and length y metres.

(i) Which is the correct expression for the perimeter of the bike shed?

Circle your answer.

[1]

xy metres

xy square metres

$x + y$ metres

$2x + y$ metres

$2x + 2y$ metres

(ii) The Headteacher is given a formula for working out the number of bikes, b , that can be stored in a bike shed that has a base of width x metres and length y metres.

He is told the formula only works when

- x and y are whole numbers
- x is greater than 3
- y is greater than 5

The formula is as follows:

$$b = \frac{6xy}{5}$$

• According to the formula, how many bikes can be stored in a bike shed 5 metres wide and 8 metres long?

Circle your answer.

[1]

3

7

42

48

240

• A bike shed x metres wide and y metres long can hold b bikes.

According to the details the Headteacher has been given, what is the formula for calculating the length, y metres?

Circle your answer.

[1]

$$y = \frac{b-5}{6x}$$

$$x = \frac{6b}{5y}$$

$$y = \frac{b+5}{6x}$$

$$y = \frac{5b}{6x}$$

$$y = \frac{6x}{5b}$$

Intermediate Maths Summer 2019 P2 Q9b

Make t the subject of the formula $r = 3t - 8$.

[2]

Intermediate Maths Nov 2018 P1 Q10b

(b) Make g the subject of the formula $f = 2 - 3g$. [2]

Intermediate Maths Summer 2018 P1 Q12b

(b) Solve $\frac{22-f}{3} = 6$. [3]

Intermediate Maths Nov 2016 P1 Q13a

(a) Make m the subject of the formula $y = 6m + 7$. [2]

Intermediate Maths Nov 2017 P2 Q14a

(a) Rearrange the following formula to make x the subject.
Give your answer in its simplest form. [3]

$$2(x + y) = 7y - 3$$
