Substitution with the Four Operations and Integers: Exercise



- Given that z = 6, work out the following:
 - 2 Work out the value of....

a 2z

 $\int -\frac{72}{z}$

- 4y + 11when y = 2
- 2p + 3q when p = 7, q = 1

 $\frac{z}{3}$

- 4y + 11when y = -7
- $\int \frac{20}{y} + 3x$ when $x = \frac{1}{5}$, y = 2

- 3 2
- $\frac{3z-4}{5}$
- 4z + 11 when z = 0.5
- $\frac{20}{x} + 3y$ when $x = \frac{1}{5}$, y = 2

- e 4-2z
- $\frac{2x-3}{4}$ when x=6
- h $8p \frac{14}{q}$ when $p = -\frac{3}{8}$, q = -7

You are told that a=5, b=-2 and c=3

As an example, 5a - 4b + c = 36Find expressions that equal:

a 6

b 1

e 41

c 7

f 32

[CCEA GCSE June 2016 T5 Paper 2 Foundation Q7c]

R = 2d - 3 - 4f

Work out the value of R when d=2, e=3 and $f=\frac{1}{2}$

[Edexcel IGCSE June 2021 2F Q12b, Adapted]

The cost, B, in rivals, of hirings a bicycle in Qatar for a number of days, N, is given by: B = 65N + 44

The cost, H, in riyals, of hiring a helmet in Qatar for a number of days, N, is given by: H=12.5N

Kasun wants to hire a bicycle and a helmet for 8 days. Work out how many riyals Kasun will have to spend.

[AQA GCSE Nov 2014 2F Q2b/2H Q7b]

The diagram shows a rectangle.

You are given that a and b are prime numbers.

The area of the rectangle is $315 \,\mathrm{cm}^2$. Work out the values of a and b.