Target 6 Sheet 01C

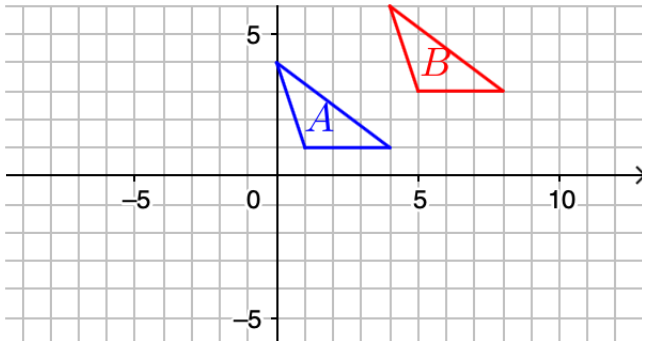
BossMaths

Question 1

A new car is available in 12 standard and 2 pearl-effect exterior colour options. There are 4 interior colour options, but 1 of these is only available with pearl-effect exteriors. How many colour combinations are there?

Question 2

Describe the transformation that maps B to A.



Question 3

Solve, giving your answers in surd form:

$(x+1)^2 = 6$

Question 4

n is a positive integer. Show that

$5(n+5) - 3(n-4) - 31$

is always a multiple of 2.

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44

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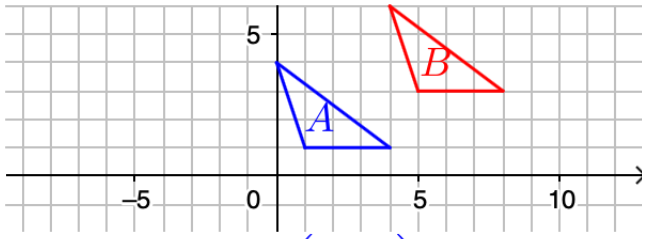

Translation by $\begin{pmatrix} -4 \\ -2 \end{pmatrix}$

Question 3

Solve, giving your answers in surd form:

$(x+1)^2 = 6$

$x + 1 = \pm\sqrt{6}$

$x = -1 + \sqrt{6},\ x = -1 - \sqrt{6}$

Question 4

n is a positive integer. Show that

$5(n+5) - 3(n-4) - 31$

is always a multiple of 2.

Simplifying, we obtain $2n + 6$.

We can write it as $2(n+3)$.

This is always a multiple of 2.