Target 6 Sheet 01A



Question 1

A new car is available in 11 standard and 1 pearl-effect exterior colour options. There are 7 interior colour options, but 2 of these are only available with the pearl-effect exterior. How many colour combinations are there?

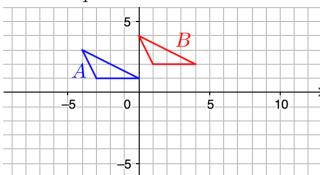
Question 3

Solve, giving your answers in surd form:

$$(x+1)^2 = 15$$

Question 2

Describe the transformation that maps A to B.



Question 4

n is a positive integer. Show that

$$4(n+3) + 2(n+5) + 20$$

is always a multiple of 3.

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Question 1

A new car is available in 11 standard and 1 pearl-effect exterior colour options. There are 7 interior colour options, but 2 of these are only available with the pearl-effect exterior. How many colour combinations are there?

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Question 3

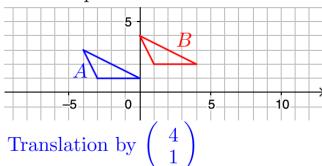
Solve, giving your answers in surd form:

$$(x+1)^2 = 15$$

$$x+1 = \pm \sqrt{15}$$
$$x = -1 + \sqrt{15}, x = -1 - \sqrt{15}$$

Question 2

Describe the transformation that maps A to B.



Question 4

n is a positive integer. Show that

$$4(n+3) + 2(n+5) + 20$$

is always a multiple of 3.

Simplifying, we obtain 6n + 42.

We can write it as 3(2n+14).

This is always a multiple of 3.