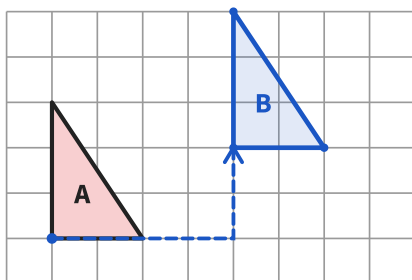


Translating Shapes

ANSWERS

1

Translate shape A by $\begin{pmatrix} 4 \\ 2 \end{pmatrix}$.

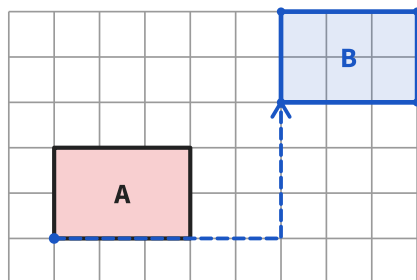


4 right / left

2 up / down

2

Translate shape A by $\begin{pmatrix} 5 \\ 3 \end{pmatrix}$.

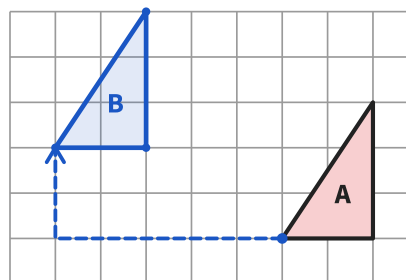


5 right / left

3 up / down

3

Translate shape A by $\begin{pmatrix} -5 \\ 2 \end{pmatrix}$.

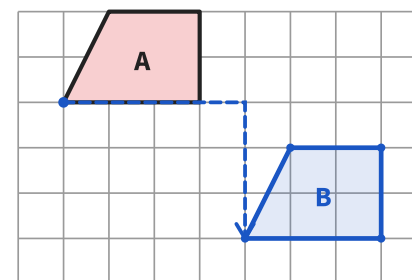


5 right / left

2 up / down

4

Translate shape A by $\begin{pmatrix} 4 \\ -3 \end{pmatrix}$.

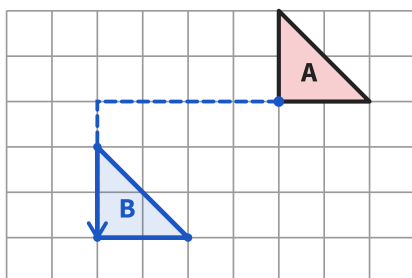


4 right / left

3 up / down

5

Translate shape A by $\begin{pmatrix} -4 \\ -3 \end{pmatrix}$.

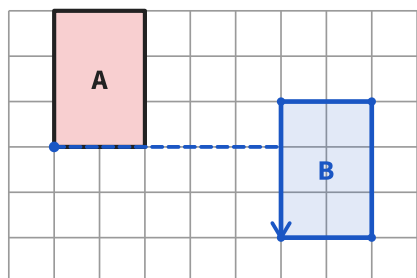


4 right / left

3 up / down

6

Translate shape A by $\begin{pmatrix} 5 \\ -2 \end{pmatrix}$.

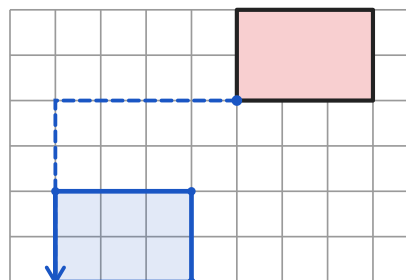


5 right / left

2 up / down

7

A rug is slid across a floor plan by $\begin{pmatrix} -4 \\ -4 \end{pmatrix}$. Draw the rug in its new place.

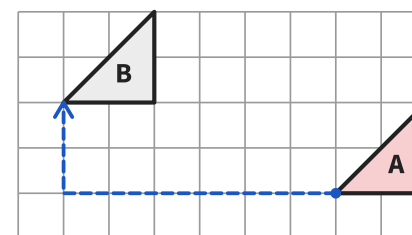


4 right / left

4 up / down

8

Shape A slides to shape B. Write the column vector.



6 right / left

2 up / down

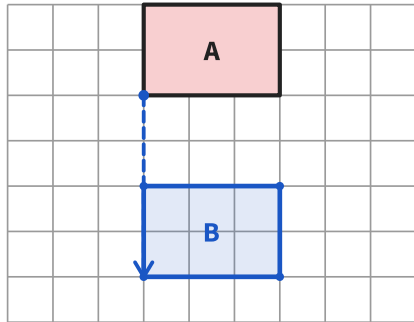
$\begin{pmatrix} -6 \\ 2 \end{pmatrix}$

Translating Shapes *further practice*

ANSWERS

9

Translate shape A by $\begin{pmatrix} 0 \\ -4 \end{pmatrix}$.

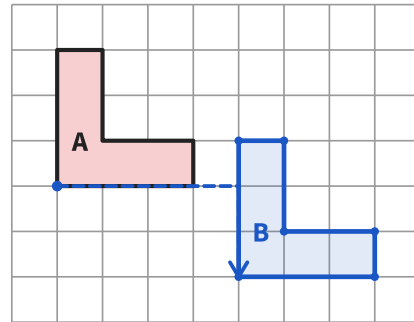


0 right / left

4 up / down

10

Translate shape A by $\begin{pmatrix} 4 \\ -2 \end{pmatrix}$.

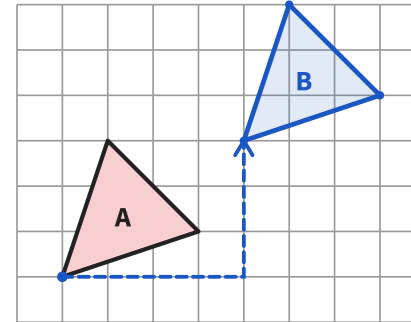


4 right / left

2 up / down

11

Translate shape A by $\begin{pmatrix} 4 \\ 3 \end{pmatrix}$.

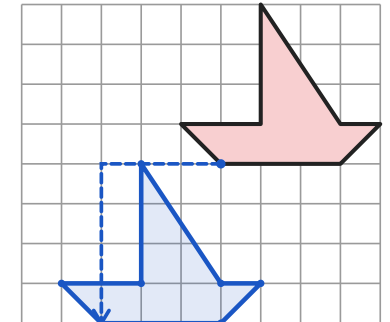


4 right / left

3 up / down

12

A boat on a map sails $\begin{pmatrix} -3 \\ -4 \end{pmatrix}$. Draw it.

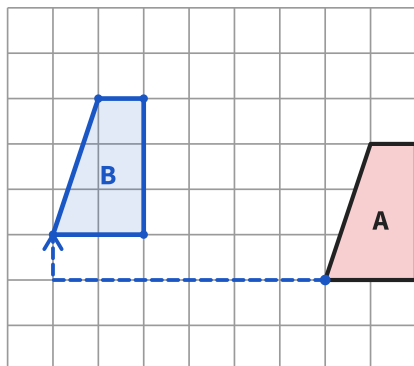


3 right / left

4 up / down

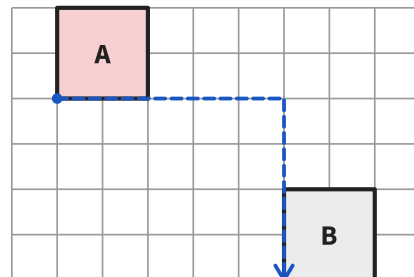
13

Translate shape A by $\begin{pmatrix} -6 \\ 1 \end{pmatrix}$.
Label the new shape B.



14

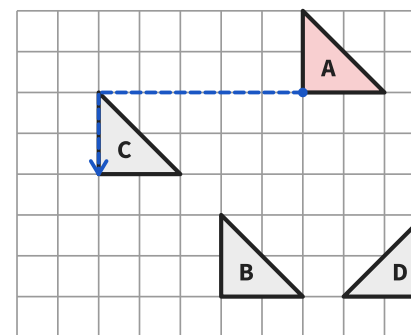
A robot cleaner moves from A to B.
Write the column vector.



$\begin{pmatrix} 5 \\ -4 \end{pmatrix}$

15

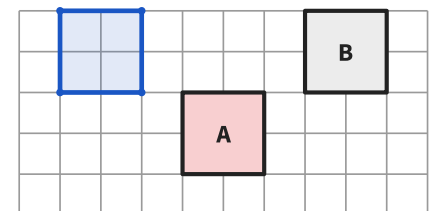
Shape A is translated by $\begin{pmatrix} -5 \\ -2 \end{pmatrix}$.
Which shape is its image: B, C or D?



Shape C

16

Sam translates shape A by $\begin{pmatrix} -3 \\ 2 \end{pmatrix}$ and draws B. What has he done wrong?



Sam moved the shape 3
right.

The minus sign means move 3
left.