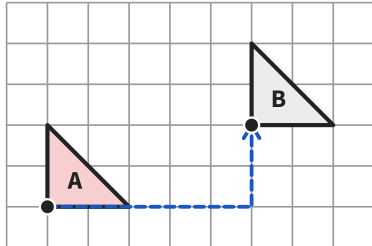


Describing Translations

ANSWERS

1

Describe the translation that maps A onto B.

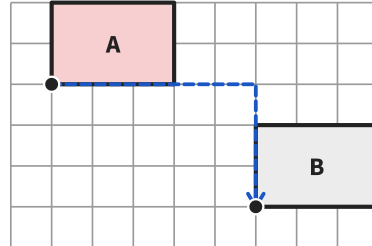


5 right / left 2 up / down

Translation by the vector $\begin{pmatrix} 5 \\ 2 \end{pmatrix}$

2

Describe the translation that maps A onto B.

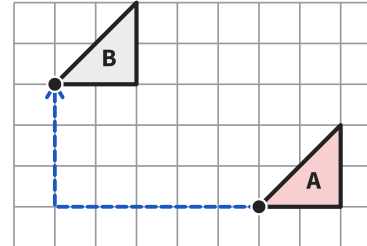


5 right / left 3 up / down

Translation by the vector $\begin{pmatrix} 5 \\ -3 \end{pmatrix}$

3

Describe the translation that maps A onto B.

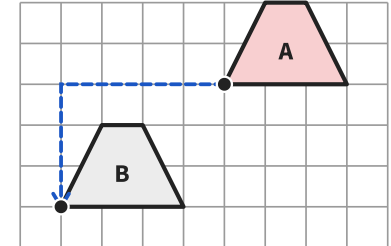


5 right / left 3 up / down

Translation by the vector $\begin{pmatrix} -5 \\ 3 \end{pmatrix}$

4

Describe the translation that maps A onto B.

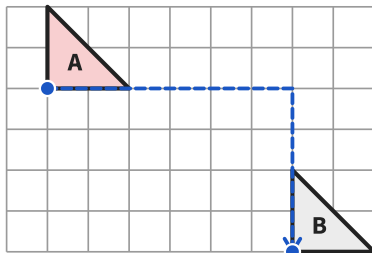


4 right / left 3 up / down

Translation by the vector $\begin{pmatrix} -4 \\ -3 \end{pmatrix}$

5

Describe the translation that maps A onto B.

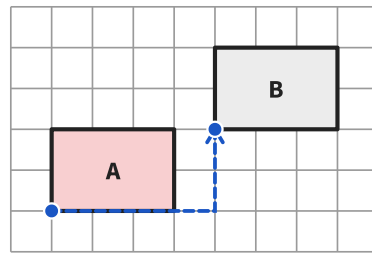


6 right / left 4 up / down

Translation by the vector $\begin{pmatrix} 6 \\ -4 \end{pmatrix}$

6

Describe the translation that maps A onto B.

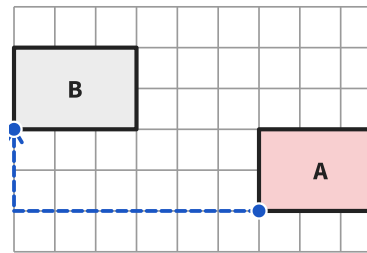


4 right / left 2 up / down

Translation by the vector $\begin{pmatrix} 4 \\ 2 \end{pmatrix}$

7

A rug is moved on a floor plan from A to B. Describe the translation.

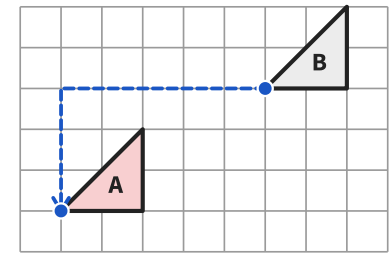


6 right / left 2 up / down

Translation by the vector $\begin{pmatrix} -6 \\ 2 \end{pmatrix}$

8

Describe the translation that maps B onto A.



5 right / left 3 up / down

Translation by the vector $\begin{pmatrix} -5 \\ -3 \end{pmatrix}$

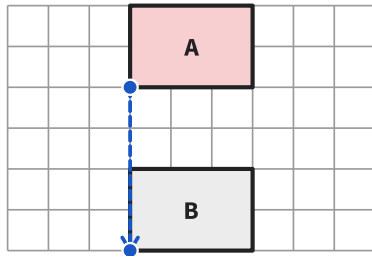
Describing Translations *further practice*

ANSWERS

9



Describe the translation that maps A onto B.



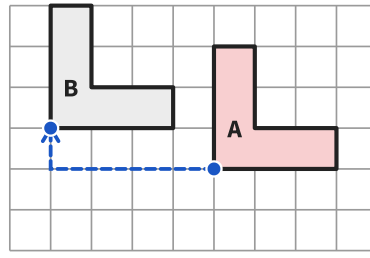
0 right / left 4 up / down

Translation by the vector $\begin{pmatrix} 0 \\ -4 \end{pmatrix}$

10



Describe the translation that maps A onto B.



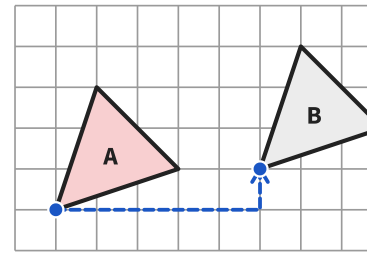
4 right / left 1 up / down

Translation by the vector $\begin{pmatrix} -4 \\ 1 \end{pmatrix}$

11



Describe the translation that maps A onto B.



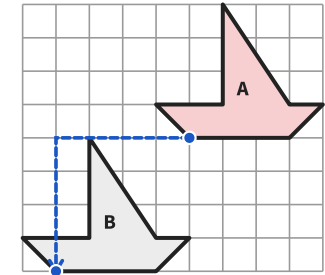
5 right / left 1 up / down

Translation by the vector $\begin{pmatrix} 5 \\ 1 \end{pmatrix}$

12



A boat sails from A to B on a map. Describe the translation.



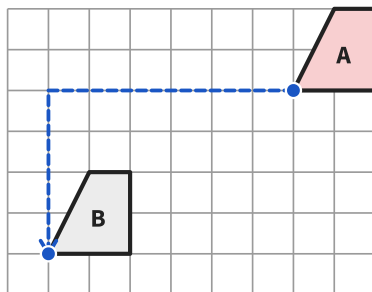
4 right / left 4 up / down

Translation by the vector $\begin{pmatrix} -4 \\ -4 \end{pmatrix}$

13



Describe fully the single transformation that maps shape A onto shape B.

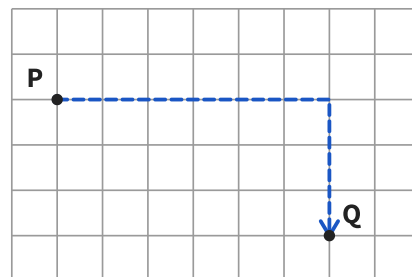


Translation by $\begin{pmatrix} -6 \\ -4 \end{pmatrix}$

14



Point P is translated to point Q. Write the column vector.

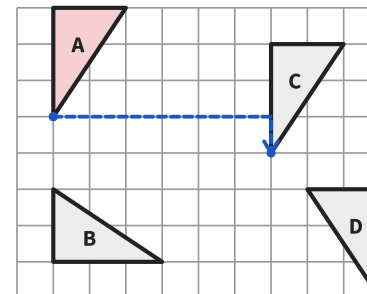


Vector $\begin{pmatrix} 6 \\ -3 \end{pmatrix}$

15



Which shape is a translation of A? Write its column vector.



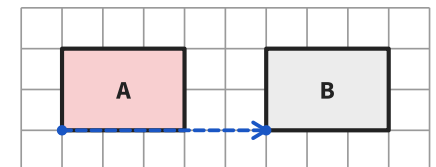
Shape C

Vector $\begin{pmatrix} 6 \\ -1 \end{pmatrix}$

16



Sam says A has moved 2 squares right to B. What has he done wrong?



Sam counted

the gap between A and B.

A has moved

5 squares right.