

G.CO.A.5: Translations 2

- 1 The transformation $T_{(-2,3)}$ maps the point $(7,2)$ onto the point whose coordinates are
 - 1) $(9,5)$
 - 2) $(5,5)$
 - 3) $(5,-1)$
 - 4) $(-14,6)$

- 2 The image of $A(-1,3)$ under the translation $T_{2,1}$ is
 - 1) $(1,4)$
 - 2) $(-3,2)$
 - 3) $(-2,3)$
 - 4) $(0,5)$

- 3 What is the image of point $(2,4)$ under the translation $T_{-6,1}$?
 - 1) $(-4,3)$
 - 2) $(-4,5)$
 - 3) $(8,3)$
 - 4) $(8,5)$

- 4 If translation T maps point $A(-3,1)$ onto point $A'(5,5)$, which is the translation T ?
 - 1) $T_{2,4}$
 - 2) $T_{2,6}$
 - 3) $T_{8,6}$
 - 4) $T_{8,4}$

- 5 What is the image of $(-2,3)$ after the transformation $T_{(3,-1)}$?

- 6 What is the image of the point $(3,-4)$ under the translation $T_{(-2,0)}$?

- 7 Find the coordinates of the image of $(-3,4)$ under the translation $T_{-2,3}$.

- 8 Find the coordinates of P' , the image of $P(-3,4)$ under the translation $T_{4,1}$.

- 9 If the transformation $T_{(x,y)}$ maps point $A(1,-3)$ onto point $A'(-4,8)$, what is the value of x ?

- 10 Translation T maps point $(2,6)$ to point $(4,-1)$. What is the image of point $(-1,3)$ under translation T ?

- 11 A translation maps $P(3,-2)$ to $P'(1,1)$. Under the same translation, find the coordinates of Q' , the image of $Q(-3,2)$.

- 12 A translation maps $P(4,1)$ to $P'(2,-1)$. What are the coordinates of Q' , the image of $Q(1,3)$ under the same translation?

- 13 A translation maps $P(4, -3)$ onto $P'(0, 0)$. Find the coordinates of Q' , the image of $Q(-2, 1)$ under the same translation.
- 14 A translation maps the origin to the point $(5, -3)$. What is the image of the point $(-3, 2)$ under the same translation?
- 15 Under a given translation, the origin maps onto the point $(3, 5)$. What is the image of the point $(7, -1)$ under this same translation?
- 16 A translation maps the point $(5, -2)$ to a point $(0, -2)$. What is the image of the point $(0, -2)$ under the same translation?
- 17 A translation maps $(2, 1)$ onto $(-3, 2)$. Find the image of $(4, -1)$ under the same translation.
- 18 A translation maps $P(3, -2)$ onto $P'(5, 0)$. Find the coordinates of the image of $Q(4, -6)$ under the same translation.
- 19 A translation maps $A(-2, 1)$ onto $A'(2, 2)$. Find the coordinates of B' , the image of $B(-4, -5)$, under the same translation.

G.CO.A.5: Translations 2**Answer Section**

- 1 ANS: 2 REF: 019019siii
2 ANS: 1 REF: 069418siii
3 ANS: 2 REF: 060116siii
4 ANS: 4 REF: 068621siii

5 ANS:
(1,2)

REF: 018502siii

6 ANS:
(1,-4)

REF: 068501siii

7 ANS:
(-5,7)

REF: 019603siii

8 ANS:
(1,5)

REF: 010308siii

9 ANS:
-5

REF: 089605siii

10 ANS:
(1,-4)

REF: 019902siii

11 ANS:
(-5,5)

REF: 060007siii

12 ANS:
(-1,1)

REF: 060202siii

13 ANS:
(-6,4)

REF: 068012siii

14 ANS:
(2,-1)

REF: 088507siii

15 ANS:
(10,4)

REF: 088605siii

16 ANS:
(-5,-2)

REF: 068802siii

17 ANS:
(-1,0)

REF: 018902siii

18 ANS:
(6,-4)

REF: 068902siii

19 ANS:
(0,-4)

REF: 089015siii