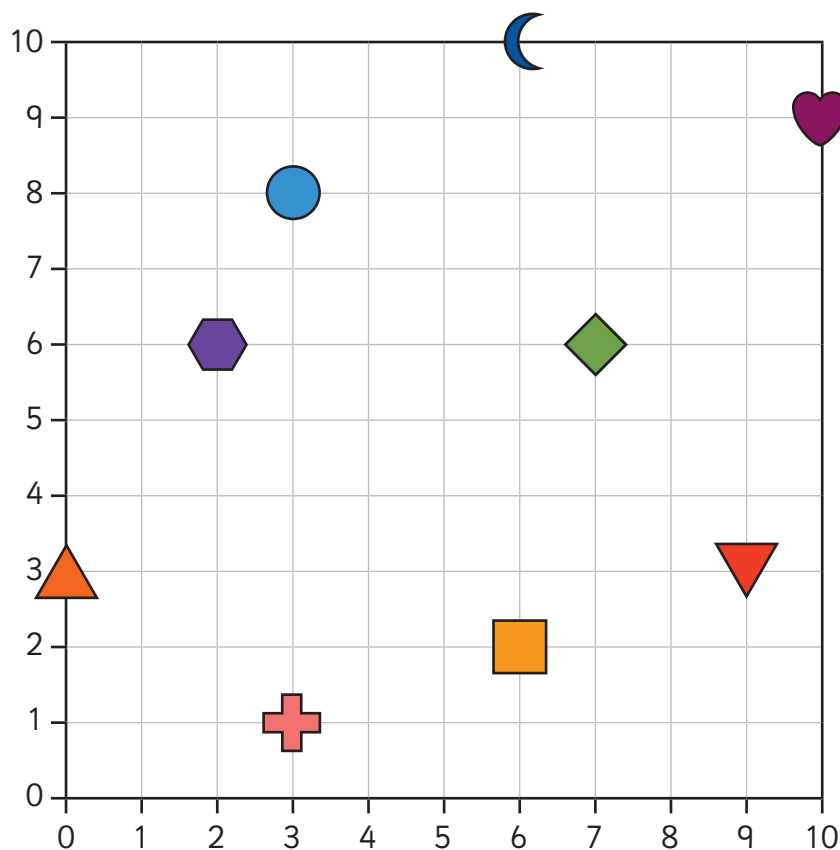


















Translations

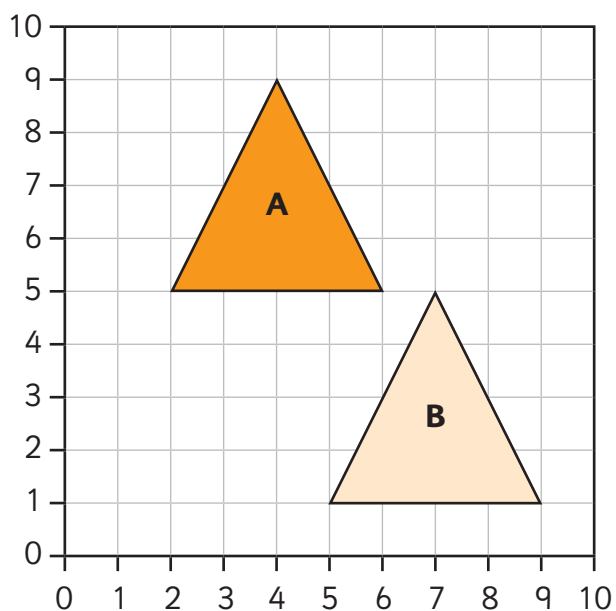


Task 1 – Describe the translations between the following shapes. The first one has been done for you.

-  to  = 2 right, 3 down
-  to  =
-  to  =
-  to  =
-  to  =
-  to  =
-  to  =
-  to  =

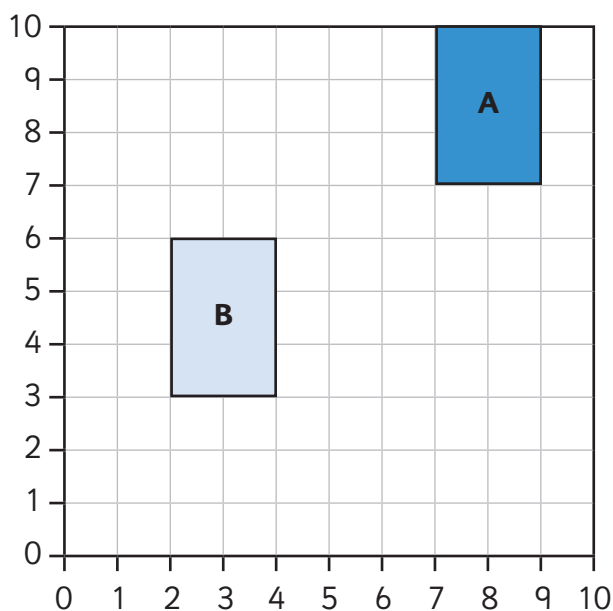
Translations

Task 2 – Describe these shape translations from A to B:



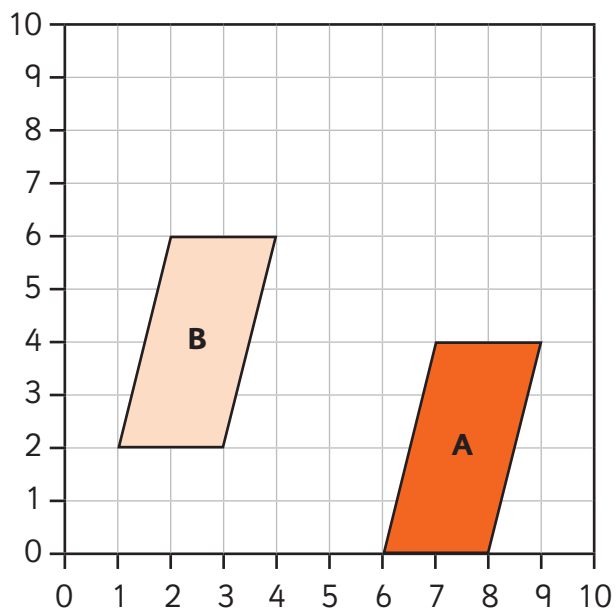
Translation =

.....



Translation =

.....



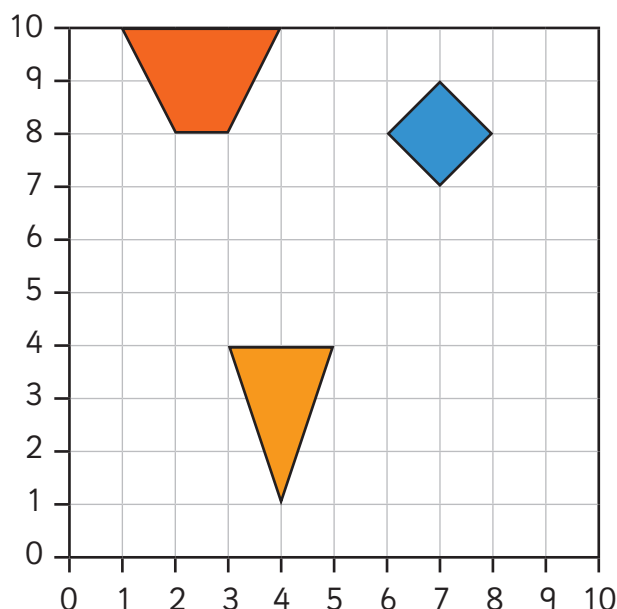
Translation =

.....



Translations

Task 3 – Follow the instructions to translate these shapes. Draw the new shapes on the grid and write the **new coordinates** of the vertices.



- a) Translate the **blue** square **3 left, 2 down**.

New coordinates:

- b) Translate the **yellow** triangle **4 right**.

New coordinates:

- c) Translate the **orange** trapezium **5 right, 4 down**.

New coordinates:

Extension:

Can you work out the **new coordinates** of these shapes after translation **without** using a coordinate grid?

- a) A **rectangle** with coordinates (2, 1), (4, 1), (2, 4), (4, 4) is translated **2 right** and **3 up**.

New coordinates =

- b) A **triangle** with coordinates (6, 4), (10, 4), (8, 8) is translated **3 left** and **2 down**.

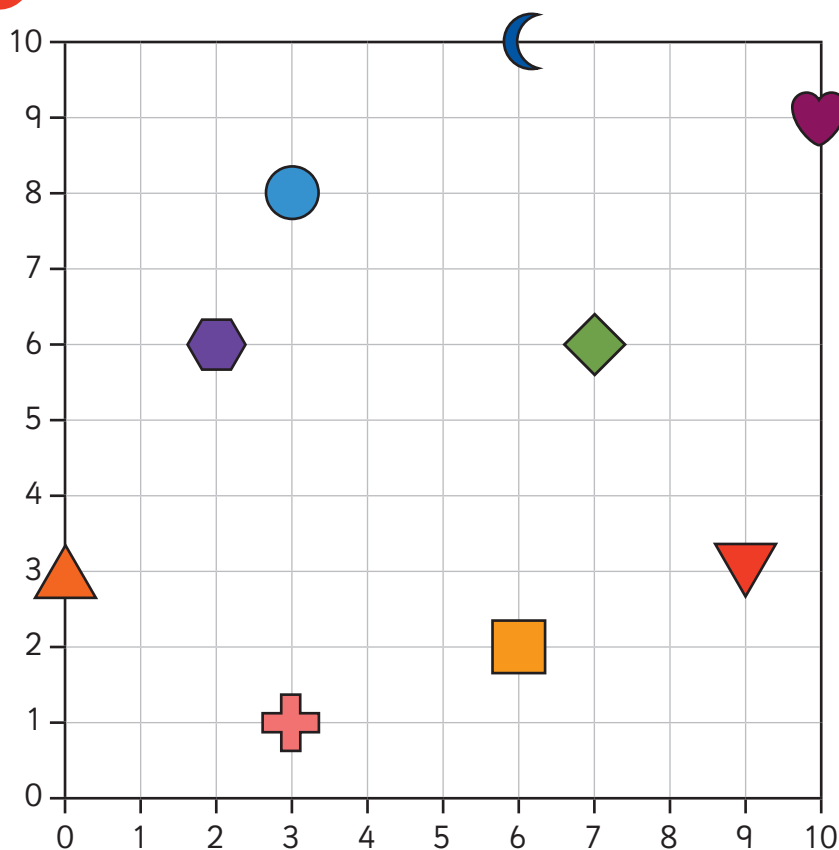
New coordinates =

- c) A **rhombus** with coordinates (0, 3), (3, 3), (4, 5), (1, 5) is translated **5 right** and **5 up**.

















New coordinates =

Translations

Answers



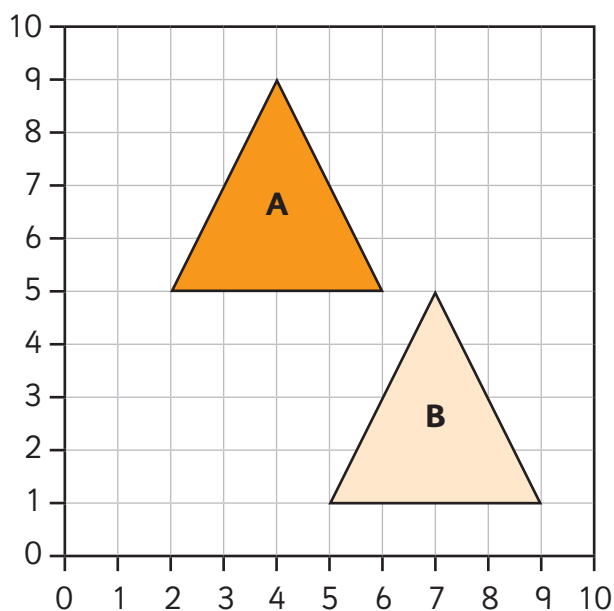
Task 1 – Describe the translations between the following shapes.
The first one has been done for you.

- a)  to  = 2 right, 3 down
- b)  to  = 3 left, 1 down
- c)  to  = 1 left, 2 down
- d)  to  = 4 left, 1 up
- e)  to  = 1 right, 4 down
- f)  to  = 3 left, 1 down
- g)  to  = 7 right, 1 up
- h)  to  = 3 left, 2 up

Translations

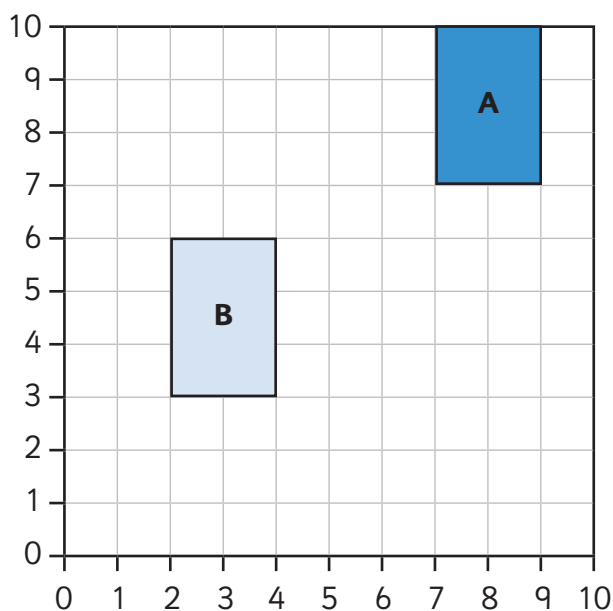
Answers

Task 2 – Describe these shape translations from A to B:



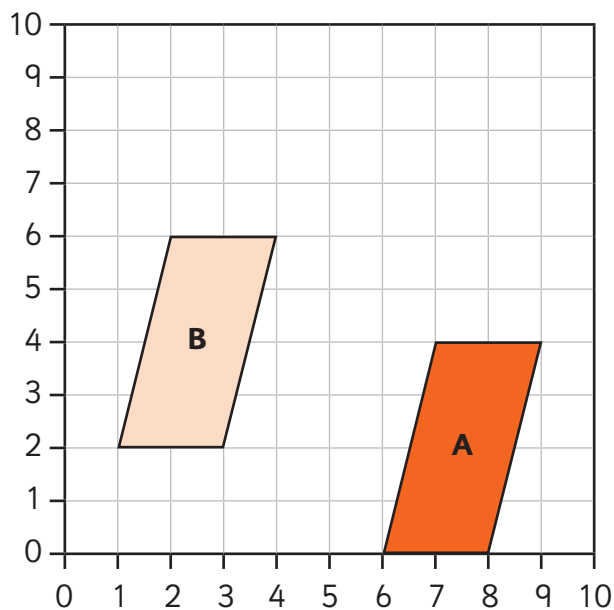
Translation =

3 right, 4 down



Translation =

5 left, 4 down



Translation =

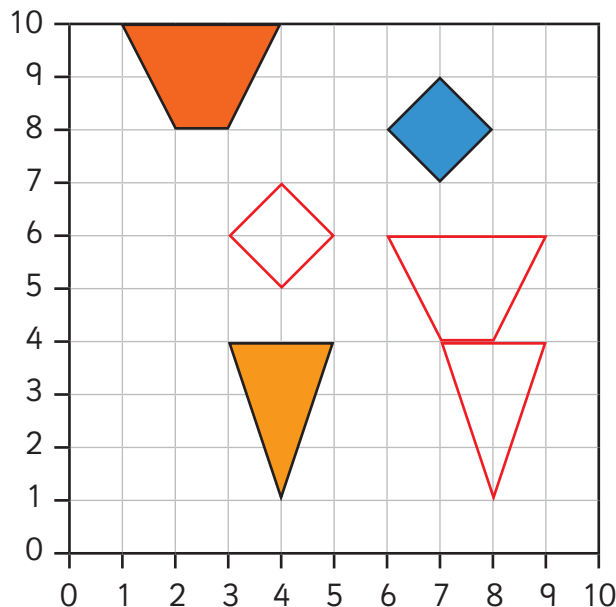
5 left, 2 up



Translations

Answers

Task 3 – Follow the instructions to translate these shapes. Draw the new shapes on the grid and write the **new coordinates** of the vertices.



- a) Translate the **blue** square **3 left, 2 down**.

New coordinates: (3,6), (4,5), (5,6), (4,7)

- b) Translate the **yellow** triangle **4 right**.

New coordinates: (8,1), (9,4), (7,4)

- c) Translate the **orange** trapezium **5 right, 4 down**.

New coordinates: (6,6), (7,4), (8,4), (9,6)

Extension:

Can you work out the **new coordinates** of these shapes after translation **without** using a coordinate grid?

- a) A **rectangle** with coordinates (2,1), (4,1), (2,4), (4,4) is translated **2 right** and **3 up**.

New coordinates = (4,4), (6,4), (4,7), (6,7)

- b) A **triangle** with coordinates (6,4), (10,4), (8,8) is translated **3 left** and **2 down**.

New coordinates = (3,2), (7,2), (5,6)

- c) A **rhombus** with coordinates (0,3), (3,3), (4,5), (1,5) is translated **5 right** and **5 up**.

New coordinates = (5,8), (8,8), (9,10), (6,10)