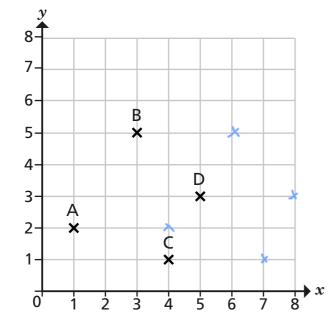
Translation with coordinates



Four points have been plotted on a coordinate grid.



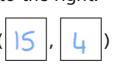
- a) Translate each point 3 to the right.
- **b)** Complete the table to show the coordinates of each point before and after the translation.

| Point | Coordinates before | Coordinates after |
|-------|--------------------|-------------------|
| А | (1,2) | (4,2) |
| В | (3,5) | (6,5) |
| С | (L, L) | (7,1) |
| D | (5,3) | (8,3) |

What do you notice?

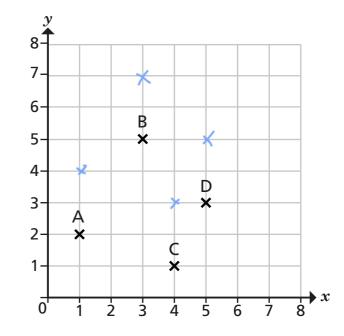
- c) Which part of the coordinate stayed the same?
- d) Which part of the coordinate changed?
- e) Point E has the coordinates (12, 4). It is translated 3 to the right.

What are the coordinates of the translated point? (



2

Four points have been plotted on a coordinate grid.



- a) Translate each point 2 up.
- and after the translation.

| Point | Coordinates before | Coordinates after |
|-------|--------------------|-------------------|
| A | (1,2) | (1, 4) |
| В | (3,S) | (3,7) |
| С | (4,1) | (4,3) |
| D | (s,3) | (s, \tilde{s}) |

What do you notice?

- c) What has stayed the same in each coordinate?
- d) What has changed?
- e) Point E has the coordinates (12, 4). It is translated 2 up.

What are the coordinates of the translated point?



White Rose Maths



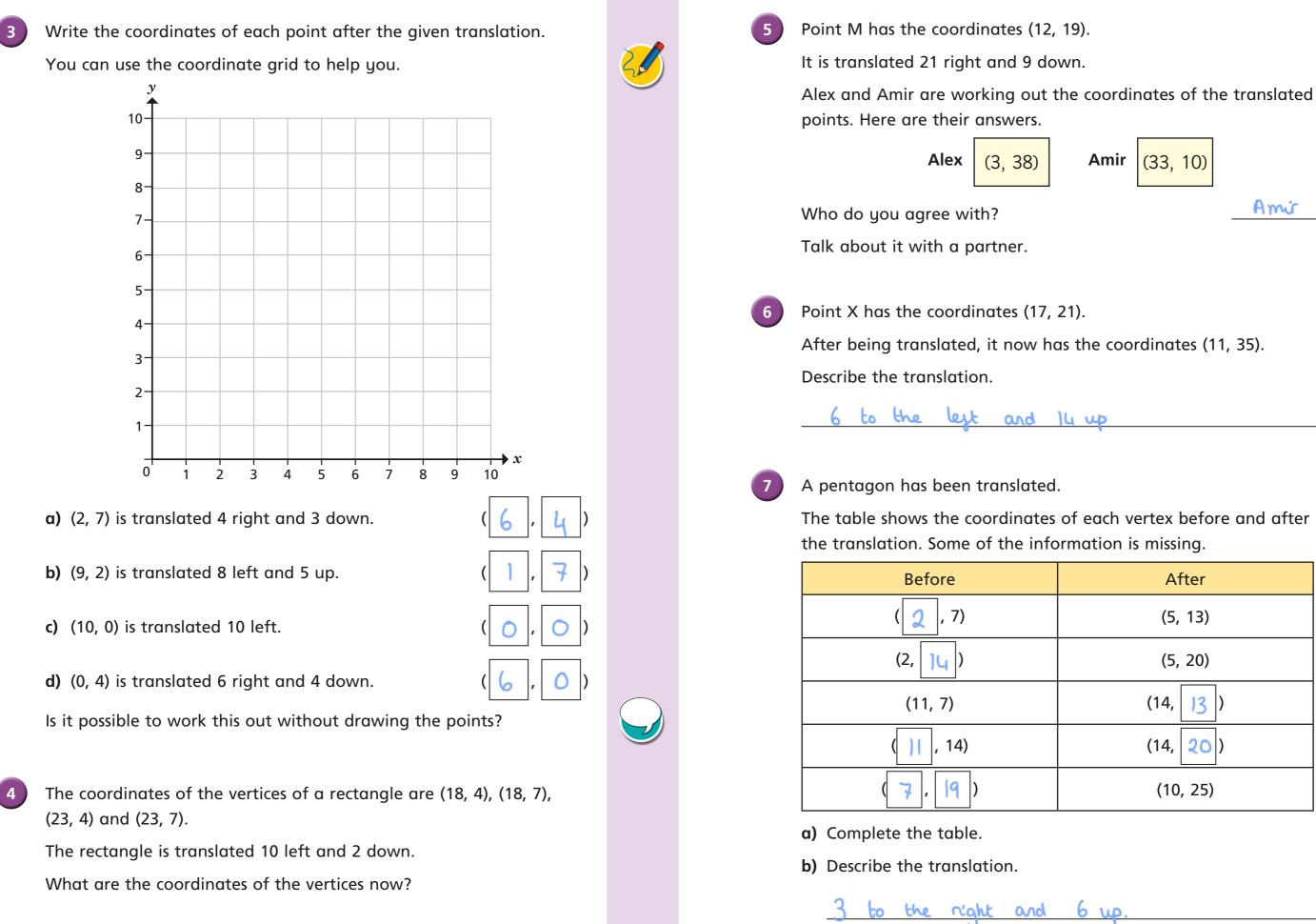
b) Complete the table to show the coordinates of each point before







© White Rose Maths 2020



Amir

| After |
|----------|
| (5, 13) |
| (5, 20) |
| (14,]3) |
| (14, 20) |
| (10, 25) |







© White Rose Maths 2020