## Translations

1


Describe the translations.

(2)


Do you agree with Rosie? No

> The translation from $A$ to $B$ is 1 right and 1 up.

Explain your answer.
She has looked at the corners closest to each other not the corresponding corners on each shoupe

Translate the triangle 6 left.


4 These coordinates form a quadrilateral: $(-5,5),(-5,1),(-1,4),(-1,2)$
It is translated 3 right and 4 down.
Draw the quadrilateral on the grid in its new position.


5


Which triangles are translations of each other?
A, D and E
Explain why the others are not translations.

6 A triangle is drawn on the coordinate grid.

a) Translate the triangle 9 right and 1 down.
b) Tick the correct box for each coordinate.

| Point | Inside the <br> new triangle | Outside the <br> new triangle | On the perimeter <br> of the new triangle |
| :---: | :---: | :---: | :---: |
| $(0,0)$ |  |  |  |
| $(4,-5)$ |  |  |  |
| $(2,-1)$ |  |  |  |
| $(-6,-3)$ |  |  |  |
| $(3,-4)$ |  |  |  |

7


This parallelogram has been translated 50 left and 25 down.
What were the coordinates of all four vertices before it was translated? $(-1,14) \quad(29,14) \quad(10,-15) \quad(40,-15)$


