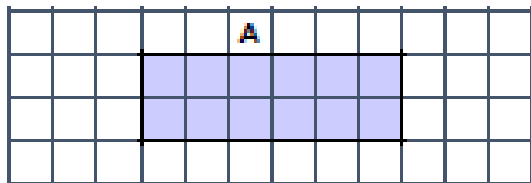


LO: To give reasons and solve problems by comparing area.

Challenge 1

1a. Using the clues below, give the possible area of shape B.



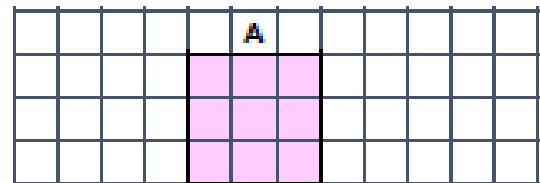
A has a larger area than B.

The area of B is larger than 6 squares.



PS

1b. Using the clues below, give the possible area of shape B.



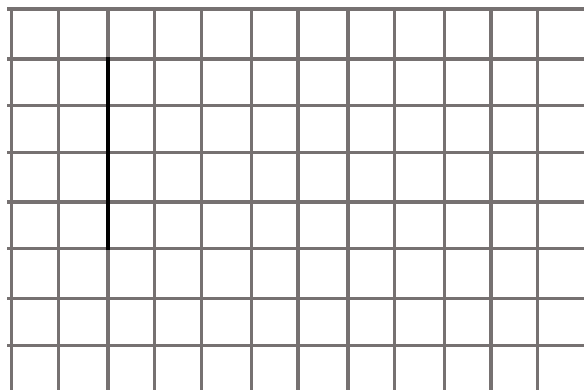
B has a larger area than A.

The area of B is smaller than 12 squares.



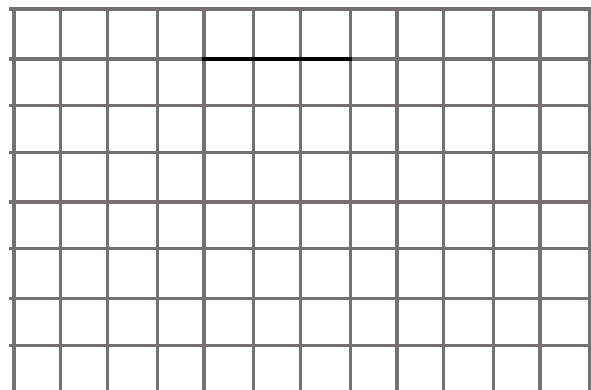
PS

2a. Complete the rectangle so that it has an area greater than 8 squares.



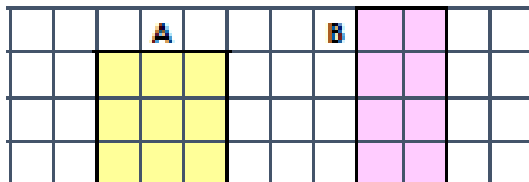
PS

2b. Complete the rectangle so that it has an area smaller than 10 squares.



PS

3a. Becky and Greg are comparing the area of two shapes.



shape A has a larger area.

Becky



shape B has a larger area.

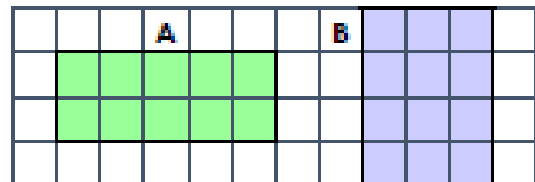
Greg

Who is correct? Prove it.



R

3b. Amy and Ben are comparing the area of two shapes.



shape A has a larger area.

Amy



shape A has a smaller area.

Ben

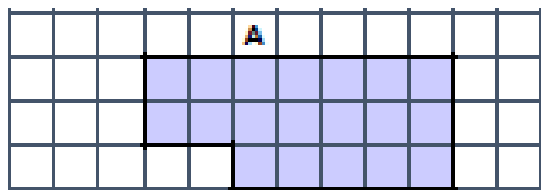
Who is correct? Prove it.



R

## Challenge 2

4a. Using the clues below, give the possible area of shape B.



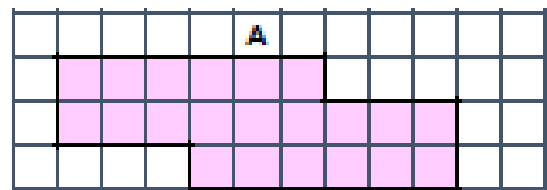
The area of B is multiple of 4.

B is larger than A but its area is less than 25 squares.



PS

4b. Using the clues below, give the possible area of shape B.



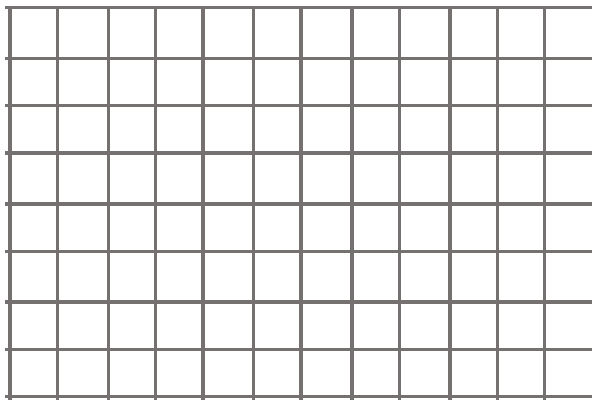
B is a rectangle with at least one side 7 squares long.

B's area is no larger than A.



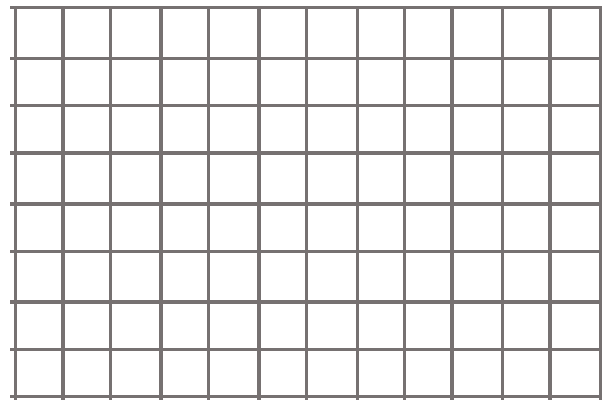
PS

5a. Draw a rectilinear shape with an area greater than 12 squares and six sides.



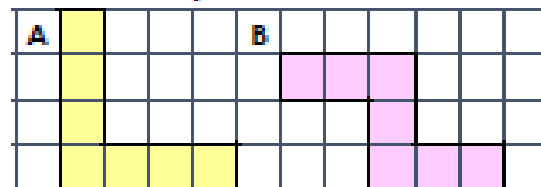
PS

5b. Draw a rectilinear shape with an area smaller than 20 squares and fewer than eight sides.



PS

6a. Anna and Simon are comparing the area of two shapes.



Shape B has a larger area.

Anna

The shapes have the same area.



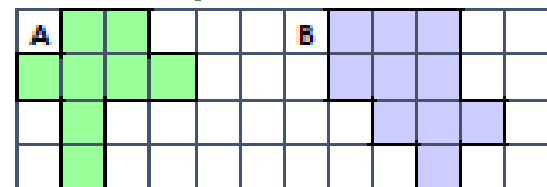
Simon

Who is correct? Prove it.



R

6b. Jess and Darren are comparing the area of two shapes.



Shape A has a smaller area.

Jess

Shape A has a larger area.



Darren

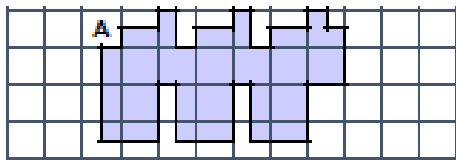
Who is correct? Prove it.



R

### Challenge 3

7a. Using the clues below, give the possible area of shape B.



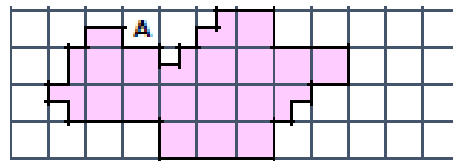
B has 8 whole squares.

It has 4 more half squares when compared to A.



PS

7b. Using the clues below, give the possible area of shape B.



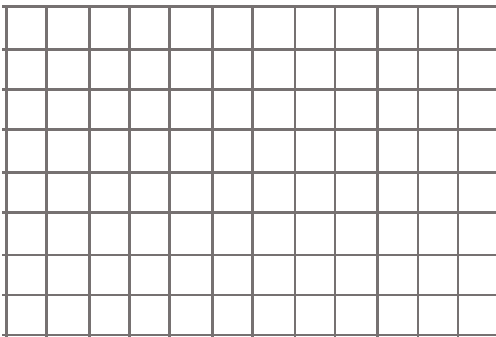
B has more whole squares when compared to A but less than 20.

B's area has 4 half squares.



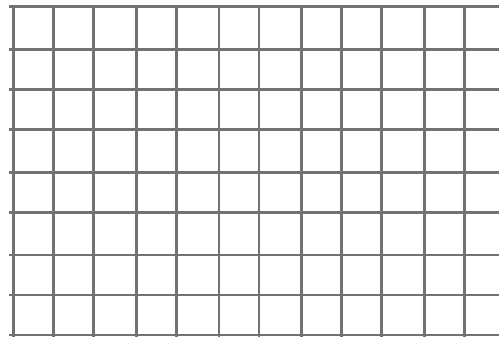
PS

8a. Draw a rectilinear shape with fewer than 10 sides and an area between 24 and 28 squares, using 18 whole squares.



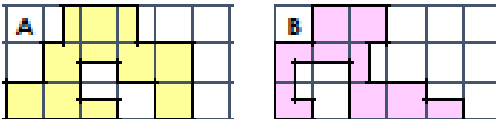
PS

8b. Draw a rectilinear shape with more than 8 sides and an area between 24 and 32 squares, using 10 half squares.



PS

9a. Kath and Luke are comparing the area of two shapes.



Shape A has a larger area.

Shape A has a smaller area.

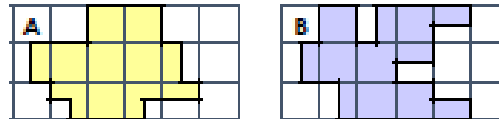


Who is correct? Prove it.



R

9b. Sara and Imran are comparing the area of two shapes.



Shape A has a smaller area.

The shapes have the same area.



Who is correct? Prove it.



R