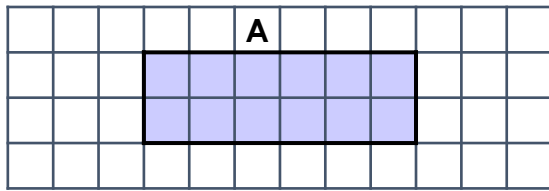


Comparing Area

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



A has a larger area than B.

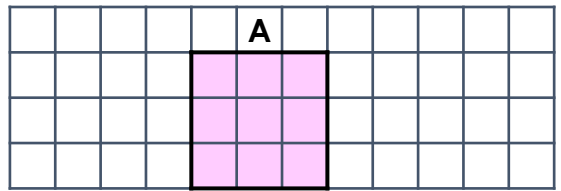
The area of B is larger than 6 squares.



PS

Comparing Area

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



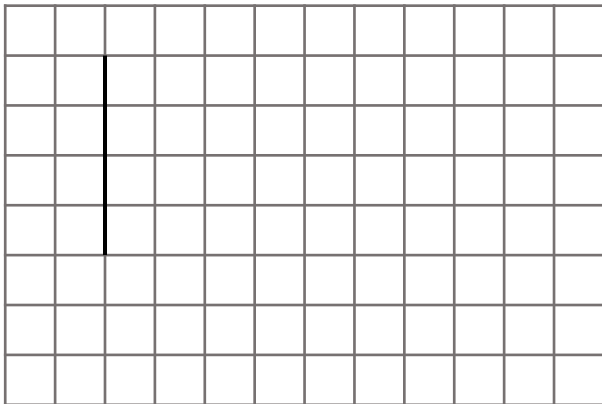
B has a larger area than A.

The area of B is smaller than 12 squares.



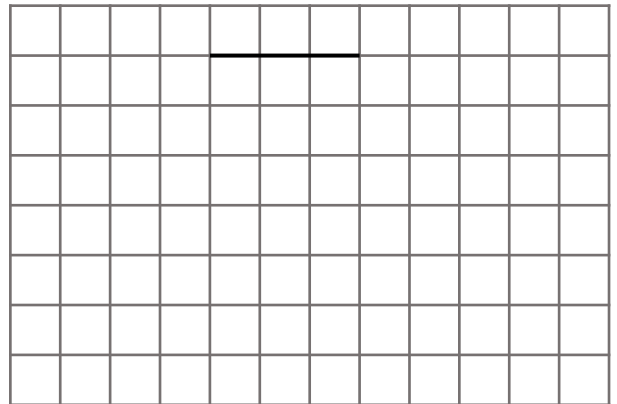
PS

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



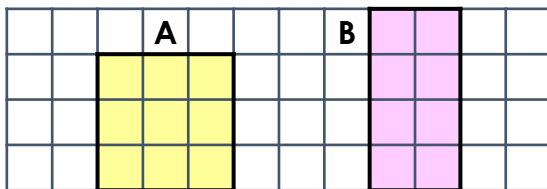
PS

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.

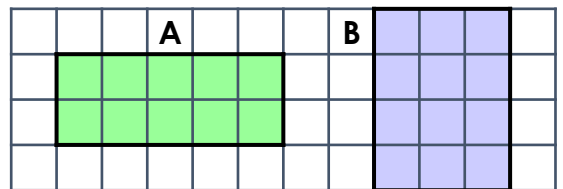
Who is correct? Prove it.



Greg

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.

Who is correct? Prove it.

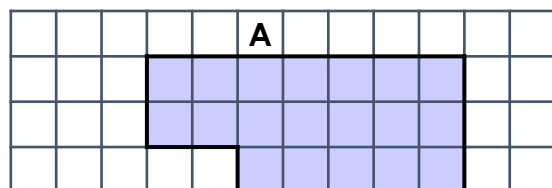


Ben

R

Comparing Area

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



The area of B is multiple of 4.

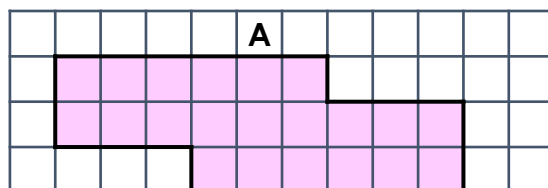
B is larger than A but its area is less than 25 squares.



PS

Comparing Area

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



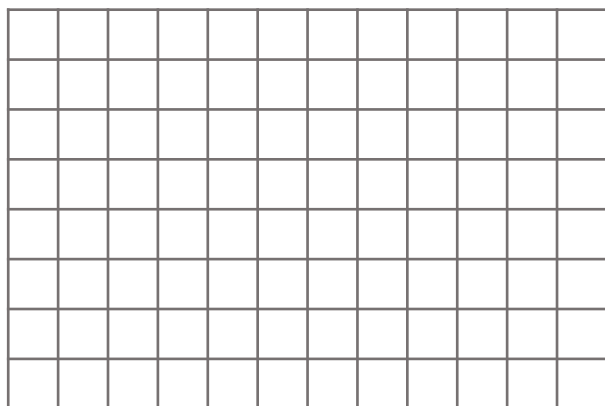
B is a rectangle with at least one side 7 squares long.

B's area is no larger than A.



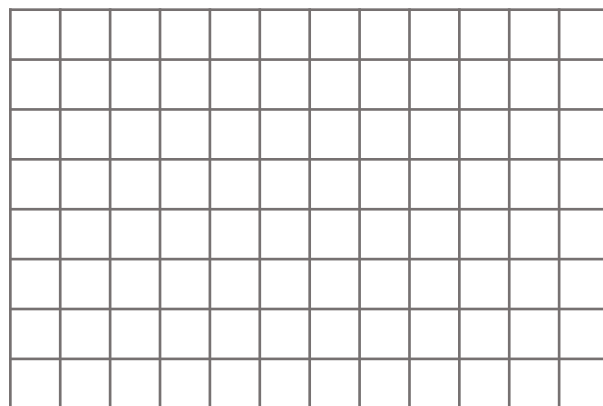
PS

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



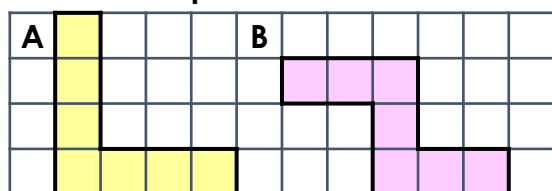
PS

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.



Anna

Shape B has a larger area.



Simon

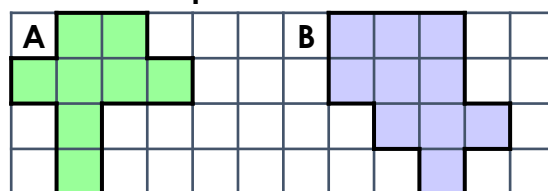
The shapes have the same area.

Who is correct? Prove it.



R

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



Jess

Shape A has a smaller area.



Darren

Shape A has a larger area.

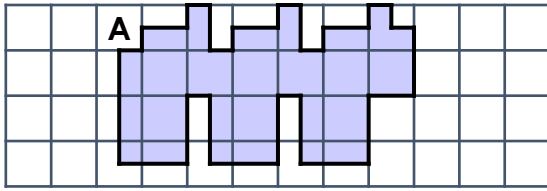
Who is correct? Prove it.



R

Comparing Area

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



B has 8 whole squares.

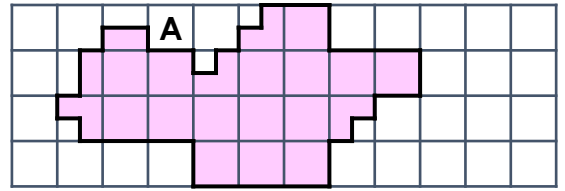
It has 4 more half squares when compared to A.



PS

Comparing Area

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



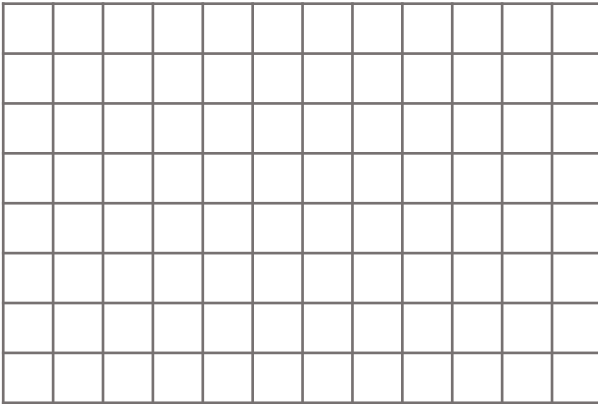
B has more whole squares when compared to A but less than 20.

B's area has 6 half squares.



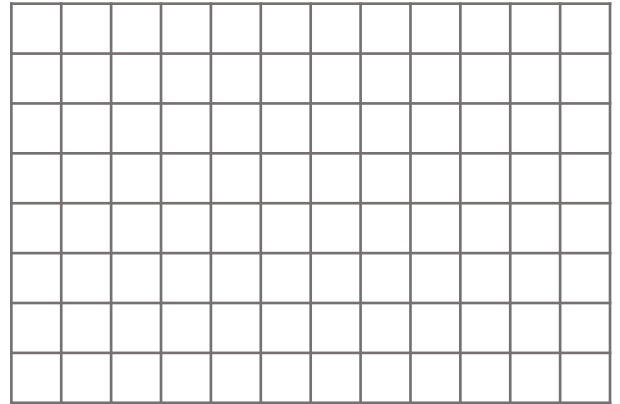
PS

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



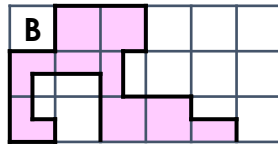
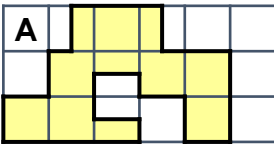
PS

8b. Draw a rectilinear shape with more than 8 sides and an area between 26 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.

Kath

Shape A has a smaller area.



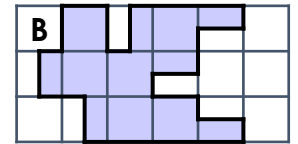
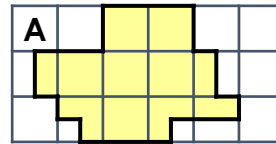
Luke

Who is correct? Prove it.



R

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



Shape A has a smaller area.

Sara

The shapes have the same area.



Imran

Who is correct? Prove it.



R

Reasoning and Problem Solving

Comparing Area

Developing

- 1a. Accept any answer between 7 and 11 squares.
- 2a. Accept any rectangle with an area greater than 8 squares.
- 3a. Becky is correct. A has an area of 9 squares and B has an area of 8 squares.

Expected

- 4a. B can be 20 or 24 squares.
- 5a. Accept any six-sided, rectilinear shape with an area greater than 12 squares.
- 6a. Simon is correct. Both shapes have an area of 7 squares.

Greater Depth

- 7a. B is 16 squares: 8 whole squares and 16 half squares.
- 8a. Accept any rectilinear shape with fewer than 10 sides and an area covering only 18 whole squares with the remaining area made up of half, quarter and three-quarter squares.
- 9a. Kath is correct. A has an area of 9 squares and B has an area of 7 squares.

Reasoning and Problem Solving

Comparing Area

Developing

- 1b. B can be 10 or 11 squares.
- 2b. Accept any rectangle with an area smaller than 10 squares.
- 3b. Ben is correct. A has an area of 10 squares and B has an area of 12 squares.

Expected

- 4b. B can be 7, 14 or 21 squares.
- 5b. Accept any rectilinear shape with an area smaller than 20 squares that is fewer than 8 sides.
- 6b. Jess is correct. A has an area of 8 squares and B has an area of 10 squares.

Greater Depth

- 7b. Accept any answer between 19 and 22 squares.
- 8b. Accept any rectilinear shape with more than 8 sides and an area covering 10 half squares with the remaining area made up of whole, quarter and three-quarter squares.
- 9b. Imran is correct. Both shapes have an area of 9 squares.