Sliding Shapes

MathApex

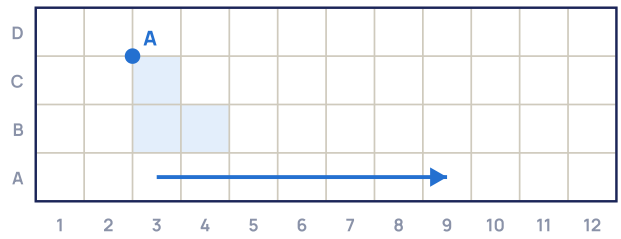
Name: _____ Date: _____

Watch video

From the video Column 2, slid 4 to the right → **2 + 4 = column 6**

1 Now it's your turn!

A corner in column 3 slides 6 squares to the right. Which column is it in?

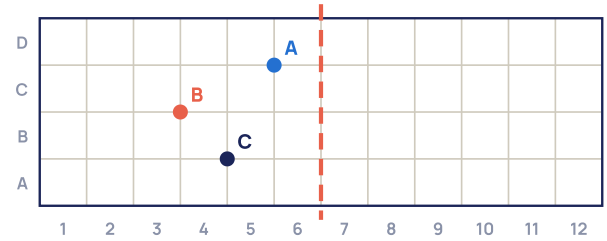


Count 6 squares to the right from column 3 and draw the shape there again.

☐ + ☐ = ☐

2 Mirror the points.

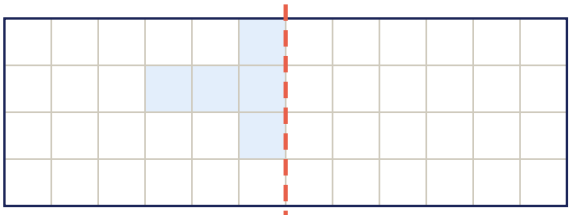
Draw the mirror points of A, B and C. How far is each point from its mirror point?



A: ☐ sq. **B:** ☐ sq. **C:** ☐ sq.

3 Mirror the shape.

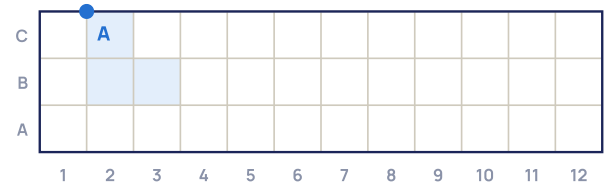
Shade the mirrored half. How many squares does the whole shape have?



☐ + ☐ = ☐ squares

4 Slide the shape.

Slide the triangle 5 squares to the right. Which column is corner A in then?



2 + 5 = ☐ **column**

5 Think backwards.

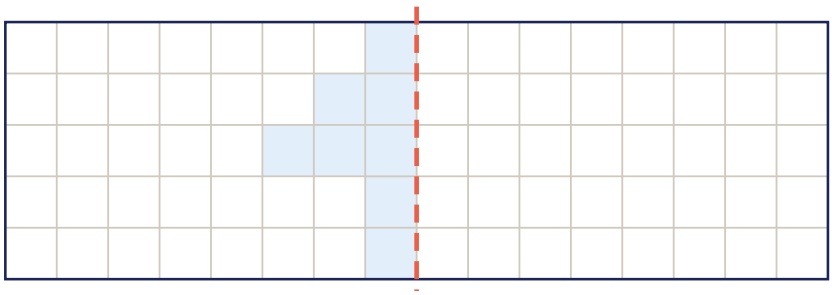
A point and its mirror point are 6 squares apart. How far is the point from the line?

6 ÷ 2 = ☐ **squares**

Brain teaser

A point is 2 squares left of the line. It is slid 3 squares to the left and then mirrored. How far is the mirror point from the line?

6 Mirror the shape in the line.



Every square gets a twin on the right, the same distance from the line.

MathApex

MATH STORY 63 · ANSWERS

Sliding Shapes

Watch video

1 Now it's your turn!

3 + 6 = 9

The corner is then in column 9.

2 Mirror the points.

A: 1 + 1 = 2 squares
B: 3 + 3 = 6 squares
C: 2 + 2 = 4 squares

3 Mirror the shape.

5 + 5 = 10 squares

4 Slide the shape.

2 + 5 = column 7

5 Think backwards.

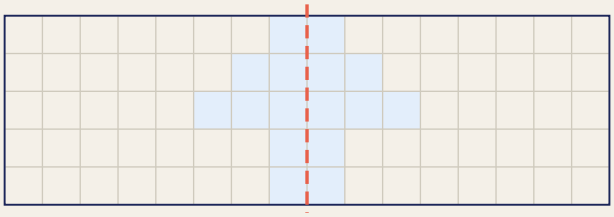
6 ÷ 2 = 3 squares

★ Brain teaser

2 + 3 = 5 squares

Mirroring does not change the distance from the line.

6 Mirroring.



8 + 8 = 16 squares

For parents and teachers: This worksheet goes with the video "Sliding Shapes" (Math Story 63, Grade 4). Mirroring in a line and sliding on the grid. Mirror points are the same distance from the line; sliding means counting squares.

More Math Stories with video and worksheet: **www.mathapex.app/en/math-stories/**