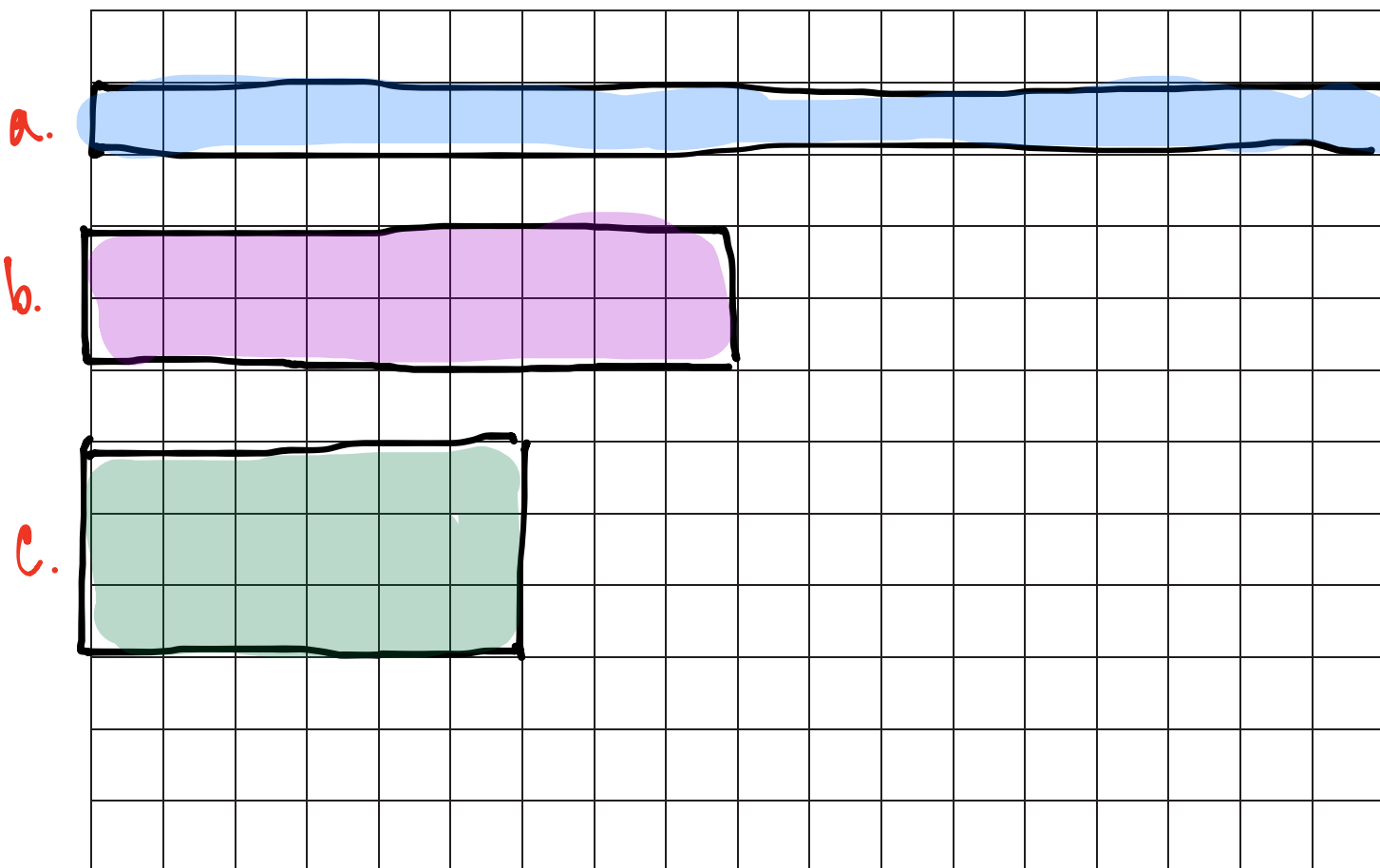Name _____   Date _____

1. Shade in squares on the grid below to create as many rectangles as you can with an area of 18 square centimeters.

a.

b.

c.

2. Find the perimeter of each rectangle in Problem 1 above.

a. P = 1 + 18 + 1 + 18
   P = 38 units

b. P = 2 + 9 + 2 + 9
   P = 22 units

c. P = 3 + 6 + 3 + 6
   P = 18 units

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Lesson 18: Construct rectangles from a given number of unit squares and determine the perimeters.

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3. Estimate to draw as many rectangles as you can with an area of 20 square centimeters. Label the side lengths of each rectangle.

1 cm

20 cm

2 cm

10 cm

4 cm

5 cm
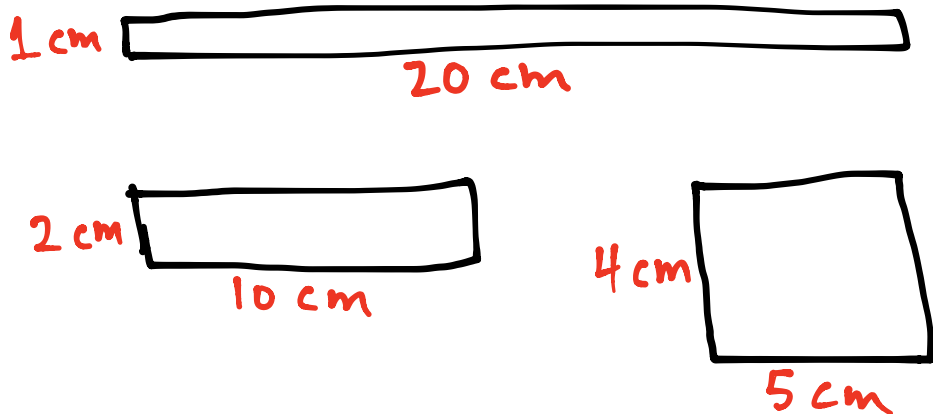
a. Which rectangle above has the greatest perimeter? How do you know just by looking at its shape?

The 1 cm-by-20 cm has the greatest perimeter because it is really long and stretched out.

b. Which rectangle above has the smallest perimeter? How do you know just by looking at its shape?

The 4cm-by-5cm rectangle has the smallest perimeter because the figure is very compact.

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