

**1. Rewrite without parenthesis:**

$$\frac{1}{2}(4 + 2x) =$$

$$a\left(2 + \frac{2}{3}m\right) =$$

**2. Compute:**

$6 + (-7) = \underline{\quad}$

$(-3) - (-6) = \underline{\quad}$

$(-8) - 6 = \underline{\quad}$

$(-8) + (-5) = \underline{\quad}$

$(-8) + 7 = \underline{\quad}$

$(-7) - (-3) = \underline{\quad}$

$(-2) + 8 = \underline{\quad}$

$(-4) - (-6) = \underline{\quad}$

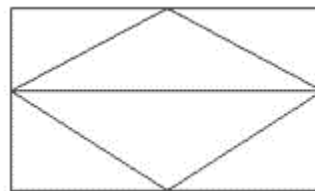
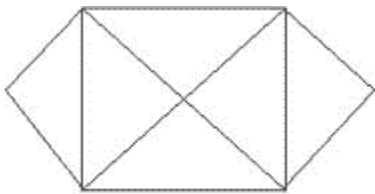
$(-9) - 5 = \underline{\quad}$

$(-9) - (-2) = \underline{\quad}$

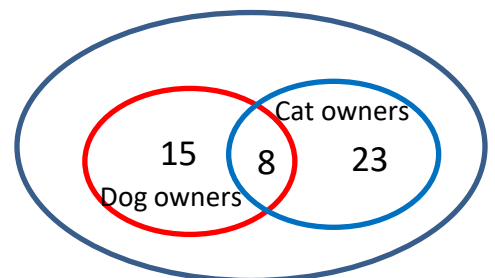
$(-2) - (-1) = \underline{\quad}$

$7 - (-3) = \underline{\quad}$

**3. Can you trace the following figures without lifting your pencil and without retracing any edge?**



4. In the fourth grade, there are 120 students. The Venn Diagram on the right represents students who have a dog as a pet, a cat, or both (nobody has more than one dog or one cat or one dog and one cat). How many students do not have any pet?



5. Compute:

$$\left(\frac{2}{3} + \frac{2}{9}\right) \div \left(\frac{5}{9} + \frac{12}{36}\right) =$$

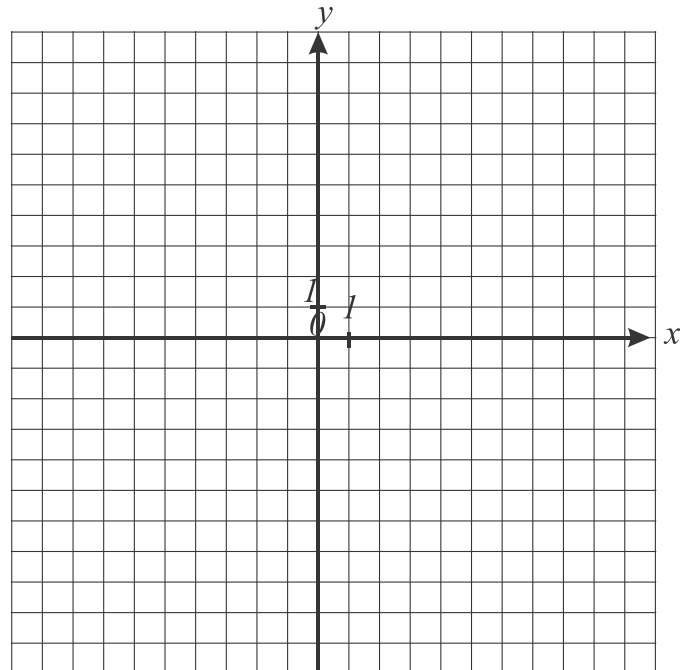
$$\left(5 - \frac{4}{7}\right) \cdot \left(3\frac{3}{4} - \frac{5}{8}\right) =$$

$$\frac{7}{12} + \frac{1}{5} \cdot \frac{5}{7} =$$

6. ABCD is a rectangle. Find the coordinates of point D and draw the rectangle.

a) A(0; 6), B(0; -2), C(5, -2)

b) A(9; 0), B(9, -5), C(2, -5)



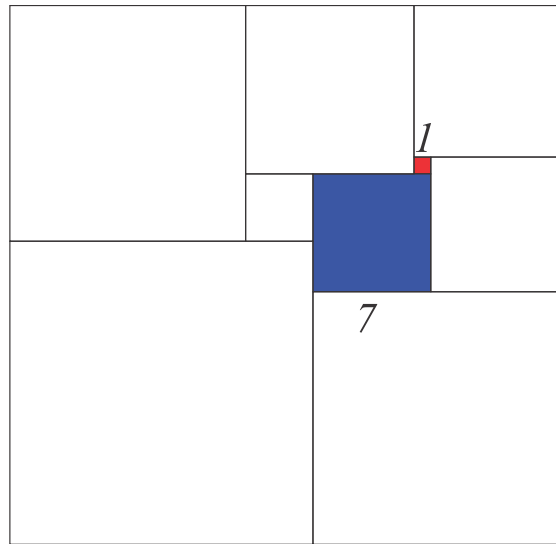
7. \*Aunt Sally asked Tom Sawyer to paint  $\frac{2}{5}$  of the fence. He asked his friend Ben Rogers to help him and Ben painted  $\frac{1}{4}$  of that part of the fence. What is the length of the fence if Ben painted  $2\frac{1}{2}$  m.



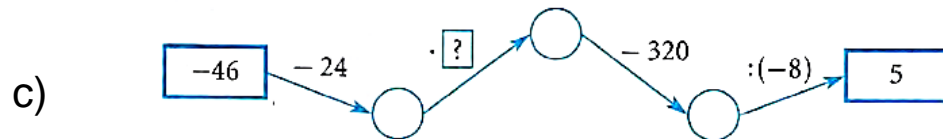
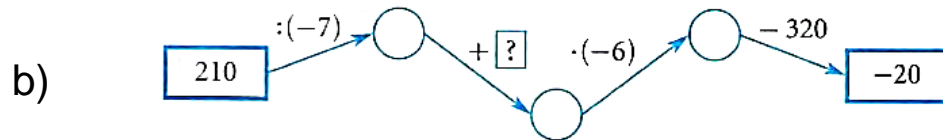
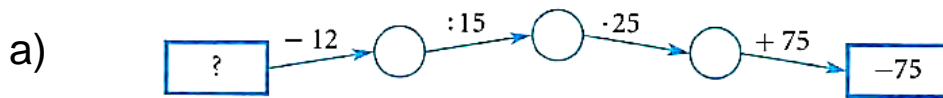
8. At Deia's Birthday Party,  $\frac{3}{5}$  of the guests were girls. At Varsha's Birthday Party  $\frac{4}{7}$  of the guests were girls. Which party has a greater fraction of girls?  
Which party had a greater number of girls?

9. Sunita goes to the grocery store every 3 days and visits the gym every 4 days. If she did both errands today, how many days will pass before she does both on the same day again?

10. Big rectangle contains 9 squares. The side of red square is 1 unit; the side of blue square is 7 units. Find sides of all other squares.



11. What number should be placed instead of “?” ?



12. Andrew and Elena are eating a large bag of candy. Andrew can eat all of it in 15 minutes; Elena can eat all of it in 10 minutes. How fast can they eat it together?