MATH 5: HANDOUT 2
REVIEW II

This week we reviewed following topics in the class

- Fractions.
- Negative numbers. Addition, subtraction, comparison.
  Multiplication and division of negative numbers.
- Distributivity. Opening the parentheses.

This topic we haven't reviewed yet, challenge yourself and continue refreshing your math skills

- Solving basic equations.
- Speed, time, distance problems.
- Basic geometric concepts. Angles.
- Quadrilaterals: parallelogram, rectangle, square, rhombus.
- Areas. Area of triangle, trapezoid, parallelogram.

Problems

1. Compute $\frac{14}{7} + \frac{45}{11}$, $\frac{7}{10} - \frac{1}{2}$.

2. Compute

$$\text{(a)} \ \frac{3}{14} \times \frac{7}{9} \qquad \text{(b)} \ \frac{12}{33} \times \frac{55}{56} \qquad \text{(c)} \ \frac{3}{14} \div \frac{7}{9} \qquad \text{(d)} \ \frac{12}{33} \div \frac{55}{56}$$

3. Compute:

$$\text{(a)} \quad (-7) + (-9) = \qquad \text{(b)} \quad 3 + (-6) + (-7) = \qquad \text{(c)} \quad (-3) + 5 + (-7) =$$

4. Solve the following equations:

$$\text{(a)} \quad 5(x - 2) = 25 \qquad \text{(b)} \quad 4x = 2x + 8 \qquad \text{(c)} \quad (-2x) + 3 - (-5x) - (-7) = -(-1)$$

5. Compute:

$$\text{(a)} \quad (-6) \div (-2) + 3 \qquad \text{(b)} \quad (-2) \div (-3) \qquad \text{(c)} \quad (-4) \times (-7) \div 9$$

6. Solve the following equations:

$$\text{(a)} \quad (-2) \times x = -7 \qquad \text{(b)} \quad (-3) \times x + 2 = x - 18$$

7. A boat has speed of 8 miles per hour (mph).
   (a) Two towns, A and B, are on the shores of a lake. How long would it take the boat to go from A to B and back if the distance between the towns is 10 miles?
   (b) Two other towns, C and D, also 10 miles apart, are on a river: C is upstream, D is downstream. The river flows at the speed of 2 mph. How long will it take the boat to go from C to D? from D to C?

8. In the figure on the right, $\angle a = 30°$ and $\angle b$ is the right angle. Can you find the sizes of all other angles in the figure?
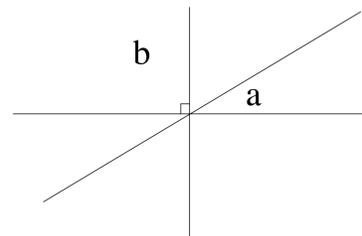
9. Find the angle between the two clock hands at 12:20.

10. Compute the area of the figures below. The picture is not to scale, so do not try measuring the lengths
- use the numbers given. In the last one, find the area of the shaded part.