

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.
- Solving basic equations.

THIS TOPIC WE HAVEN'T REVIEWED YET, CHALLENGE YOURSELF AND CONTINUE REFRESHING YOUR MATH SKILLS

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

PROBLEMS

1. Compute:

(a) $(-7) + (-9) =$ (b) $3 + (-6) + (-7) =$ (c) $(-3) + 5 + (-7) =$

2. Compute:

(a) $(-6) \div (-2) + 3$ (b) $(-2) \div (-3)$ (c) $(-4) \times (-7) \div 9$

3. Solve the following equations:

(a) $(-2) \times x = -7$ (b) $(-3) \times x + 2 = x - 18$

4. Simplify the following expressions:

(a) $2(x + y) - 2(x - y)$ (b) $1 - 2(1 - 2(1 - 2x))$

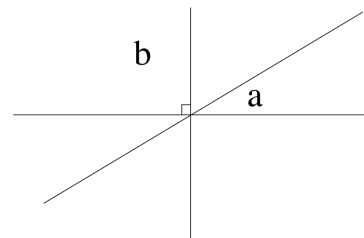
5. Solve the following equations:

(a) $5(x - 2) = 25$ (b) $4x = 2x + 8$ (c) $(-2x) + 3 - (-5x) - (-7) = -(-1)$

6. 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?

7. In the figure on the right, $\angle a = 30^\circ$ and $\angle b$ is the right angle. Can you find the sizes of all other angles in the figure?



8. Find the angle between the two clock hands at 12:20.

9. 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.

