1. Fill in the blanks following the pattern.

	$\dfrac{1}{10^2}$	$\dfrac{1}{10} \bullet \dfrac{1}{10}$		0.01
10^{-5}	$\dfrac{1}{10^5}$		$\dfrac{1}{100,000}$	

2. Write 0.000536 in scientific notation.

3. Order the following numbers from greatest to least.

   62.5% $\dfrac{7}{10}$ 9.8 x 10^{-2} .75

4. Andi is sewing a square patchwork tablecloth. If it will take 121 squares to make the whole tablecloth, how many squares will be on one side?
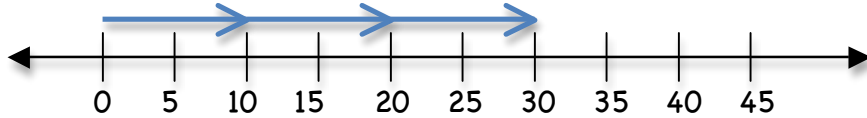
5. Circle all true statements.

   $|-8| = 8$ $-|-8| = 8$ $-8 = |-8|$ $|8| = -8$ $8 = |8|$

6. Circle all expressions that are equivalent to -5.

   8 + (–3) $\dfrac{-10}{2}$ 7 – 12   –5(–1)

   4(2^3) – 37   (–16 + 6) ÷ 2   –11 + 3(8–6)

7. Write the equation represented by the model.

8. 5(4 + 12) = 5(12 + 4) is an example of which property?

    a. distributive property
    b. commutative property of multiplication
    c. commutative property of addition
    d. identity property of addition

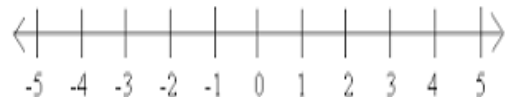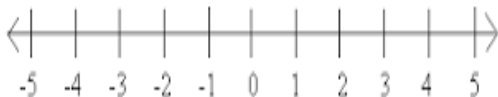9. Solve for x.   Show your work and check!   12 + x = 3

10. Write an equation and solve.

    The car repair shop charged $50 per hour plus the cost of parts to fix Emmanuel's car. Parts cost $75 and the total bill for the repairs was $325. How many hours did it take to fix his car?

11. Solve and graph the solution to each inequality.

    a. b − 6 < -4   b. 28 ≥ -7g

12. Which value makes the math sentence true? $\frac{x}{6} > -2$

    a. −12   b. −20   c. 0   d. −13