

Summer Math Work

Pre-Algebra - Grade 8

Name: _____

No calculators

1. $\frac{123}{4}$ is equal to:

A) $3\frac{3}{4}$

B) $30\frac{3}{4}$

C) $30\frac{4}{3}$

D) $3\frac{4}{3}$

2. Circle the solution for the equation $2x - 4 = 6$.

A) 1

B) 5

C) 8

D) 10

3. Find the prime factorization of 72

4. Simplify each expression.

a) $12 - 3 \times 2 + 5$

b) $1 - 5^2$

c) $\frac{7}{9} - \frac{5}{9}$

d) $\frac{1}{2} + 3\frac{2}{3}$

e) $\frac{3}{5} \div \frac{3}{4}$

f) $6(n - 2) + 7$

5. Combine like terms

$4x - 5 + x + 3$

6. Evaluate $10a - bc$ for $a=2$, $b=3$, and $c = -1$.

7. Find the missing numbers with converting fractions, decimals, and percents.

Fraction	Decimal	Percent
$\frac{2}{5}$	0.4	40%
	0.07	
		35%

8. Solve each equation.

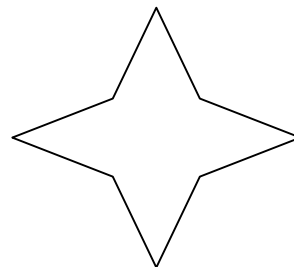
a) $3x = 15$

b) $7x - 11 = 3$

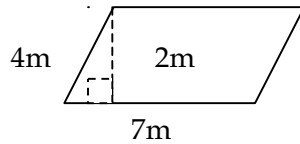
c) $2x - 3 = 8 + 3x$

The answers to the following problems must include units of measurement.

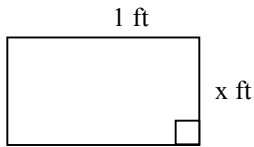
9. Each side of the following shape is 3ft; find the perimeter of the shape.



10. How long is the base in the shape below?
How long is the height?



11. Find the area. Your answer should have x in it.



12. There is a 3 m by 4 m carpet in a rectangular room. Each side of the carpet has 1 meter distance from the wall. What is the area of the room?



13. Everything in a store is 40% off. Tim wants to buy the following item, how much will he save?



Regular price: \$ 60

Save:

14. What kind of an equation has the graph below?

