

Trumbull High School
Optional Summer Review Packet 2018
For Students Entering
CP Geometry

This packet is based on mathematical concepts that were mastered in CP Algebra I. All students entering CP Geometry should be able to answer the problems in this packet.

1. Write an algebraic expression for "15 increased by the quotient of k and 3". _____

2. Write an equation for the sentence "The product of 8 and q is the same as 6 less than four times q ."

3. Simplify: _____

a) $5(n + 7) - 12$

b) $3(x + 2y) + x - 2y$

c) $(-9m)(4n)$

4. Evaluate:

a) $\frac{-64}{8}(-5) =$

b) $8[12 - (2p - 4k)]$ when $p = 4$ and $k = 3$

5. List the **coordinates** (ordered pairs) of each point on the graph.

Then, state the **quadrant** or axis in which the point lies.

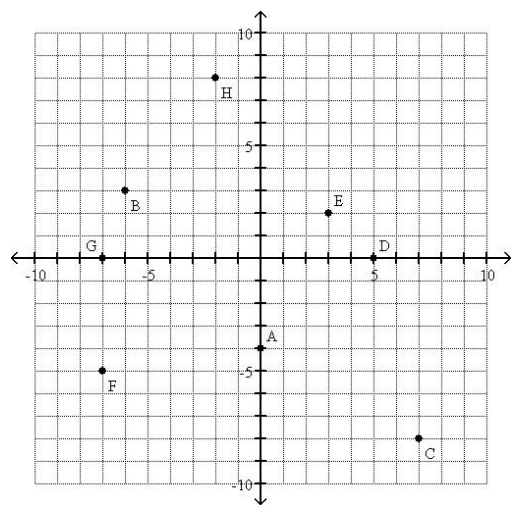
Remember to use Roman Numerals I, II, III, or IV.

A = _____ E = _____

B = _____ F = _____

C = _____ G = _____

D = _____ H = _____



Solve for x :

6. $15 - x = -22$

7. $x + \frac{5}{6} = -\frac{4}{5}$

8. $10 = 3(4 + 2x)$

9. $7(x - 2) + 8 = 3(x - 4) - 2$

10. $-3 = -15 + x$

11. $9x - 9 = -x + 21$

12. $3.6 = 5x + 8$

13. $6(2x + 5) = 6$

14. Write an equation and find the solution.

One-half of a number x increased by 6 is the same as 15.

15. Write an equation and find the solution.

The dimensions of the rectangle are:

Width: $2x - 3$

Length: $4x$

If the perimeter is 42 meters, find x .

