

The purpose of this summer work is to help prepare you for your upcoming math class. The work will tap into your prior knowledge and review past content, concepts, and skills. Our expectation is that you arrive on the first day of school able to demonstrate mastery of the material in this packet. In order to achieve this, please allow yourself plenty of time to work on the problems, use your resources (such as Khan Academy, or the math faculty here at the school during the summer to specifically help with the summer work (July 15<sup>th</sup> – Aug 15<sup>th</sup> on Tues and Wed from 8:30 to 10:30 by appointment)), and work each problem to completion.

Complete the following packet for the summer work. Please make sure all answers are on the answer sheet provided. In order to receive full credit the answers MUST be on the answer sheet. This work will be due on Thursday, September 5<sup>th</sup> and Friday, September 6<sup>th</sup>, and will be 3% of your first quarter grade. 10% will be deducted for each day it is late. Summer work will not be accepted after Sept. 12<sup>th</sup>. Each math problem in the packet will be graded as follows:

Grading: Each problem will be worth 1 point and is graded on correctness, for a total of 60 points. No partial credit will be given.

**Topics Included in the summer packet.**

- Evaluating Expression
- Distributing and Combining Like Terms
- Order of Operations
- Adding and Subtracting Integers
- Plotting Points

**A note from your TEP Algebra 1 teacher:**

This packet will help you to sharpen your skills and be ready for the first day of the 2019-2020 school year. If you are struggling with any topics or need a reminder of how to solve any of the problems, Khan Academy is a great resource! These problems shouldn't take too long. HAVE A GREAT SUMMER!!!!

**Summer Work**

Date \_\_\_\_\_ Period \_\_\_\_\_

**Evaluate each expression.**

1)  $2 + (-4)$

2)  $(-3) - (-4)$

3)  $6 - 4$

4)  $5 + (-5)$

5)  $(-4) + (-1)$

6)  $5 - (-1)$

7)  $(-6) - 2$

8)  $(-3) - (-7)$

9)  $(-4) - 7$

10)  $(-7) - (-4)$

**Find each product.**

11)  $4 \times -8$

12)  $-7 \times -5$

$13) 6 \times -8$

$14) -3 \times 2$

$15) -4 \times -4$

$16) -8 \times -3$

$17) 8 \times -5$

$18) 7 \times -1$

$19) 10 \times -4$

$20) -9 \times -6$

**Simplify each expression.**

$21) 4m + 9m$

$22) 7n - 10n$

$23) 8 - 2x + 6x$

$24) -7p + 6p$

$25) 7x - 6x$

$26) 10n + 1 + n - 8$

$27) -8x - 6 - 7x$

$28) 4n + 6n$

$29) 1 + 2v + 4v$

$30) r + 10 + 2r - 7$

**Evaluate each expression.**

$31) -3 - (-5)(4)$

$32) 6 - (2 - -2)$

$33) -1 + 2^2$

$34) (-3)(-2)^2$

$35) 12 \div (-4 + 6)$

$36) 18 \div (5 - 2)$

Evaluate each using the values given.

37)  $p + m - m$ ; use  $m = 6$ , and  $p = 6$

38)  $q + \frac{p}{5}$ ; use  $p = 5$ , and  $q = 1$

39)  $x - 3y$ ; use  $x = 1$ , and  $y = -2$

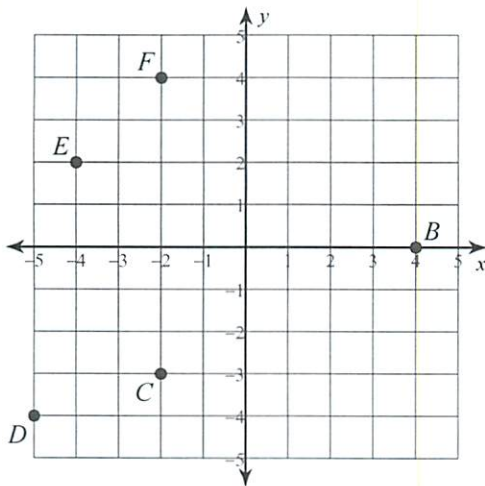
40)  $y - 5 - x$ ; use  $x = -3$ , and  $y = -6$

41)  $b + b - a$ ; use  $a = 3$ , and  $b = 1$

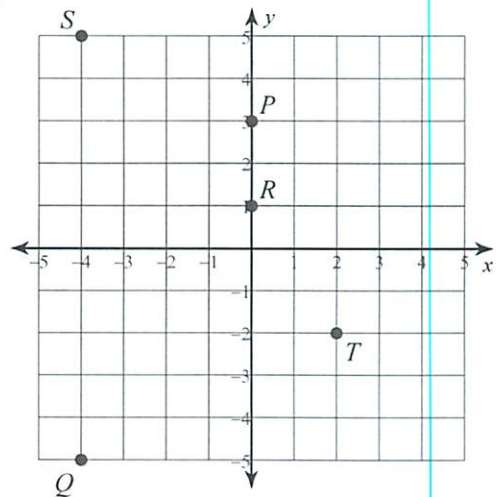
42)  $xy + 1$ ; use  $x = -6$ , and  $y = 3$

State the coordinates of each point.

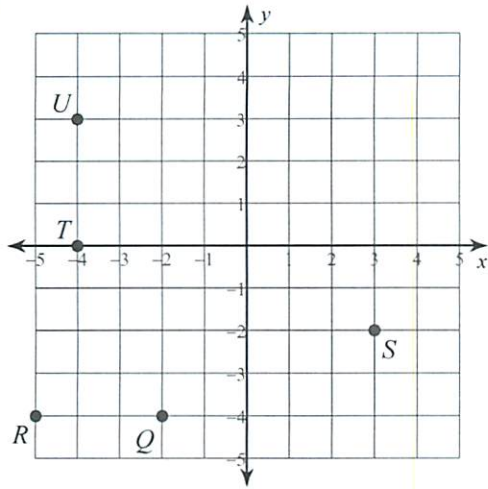
43)



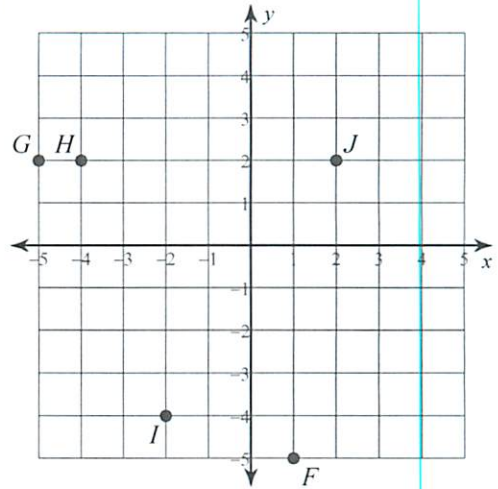
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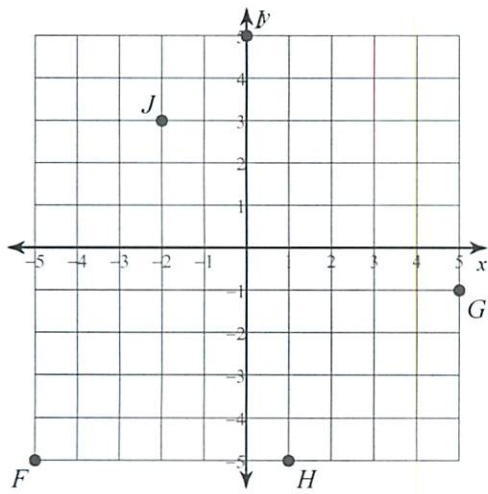
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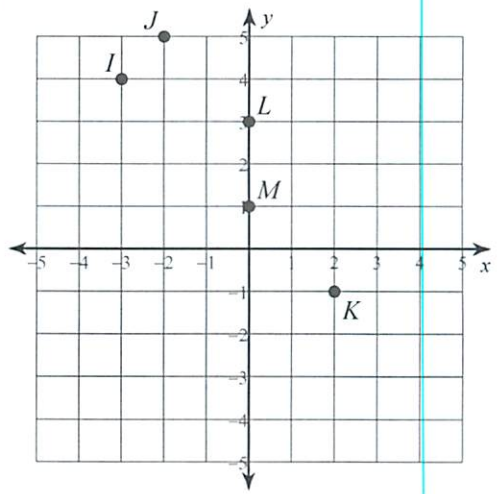
46)



47)

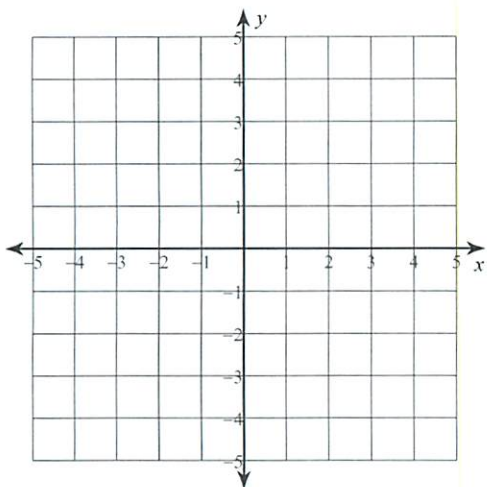


48)



Plot each point.

- 49)  $B(-4, 4)$     $C(1, 2)$     $D(-4, -2)$   
 $E(-3, 1)$     $F(2, -2)$



- 50)  $N(0, 2)$     $M(2, 5)$     $L(-2, -5)$   
 $K(-5, 0)$     $J(1, -1)$

