

Summer Packet 2019-2020

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 15th – Aug 15th 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 5th and Friday, September 6th**, 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. 12th. 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.

- Solving One Step Equations
- Solving Two Step Equations
- Evaluating Expression
- Adding and Subtracting Fractions
- Multiplying Fractions
- Distributing and Combining Like Terms
- Order of Operations
- Adding and Subtracting Integers
- Plotting Points
- Graphing in Slope Intercept Form

A note from your 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 Answer Sheet

Your answers must be on the answer sheet in order to receive full credit.

Solving One Step Equation

1.	2.	3.
4.	5.	6.

Solving Two Step Equations

7.	8.	9.
10.	11.	12.

Evaluating Expressions

13.	14.	15.
16.	17.	18.

Adding and Subtracting Fractions

19.	20.	21.
22.	23.	24.

Multiplying Fractions

25.	26.	27.
28.	29.	30.

Distribute and Combine Like Terms

31.	32.	33.
34.	35.	36.

Order of Operations

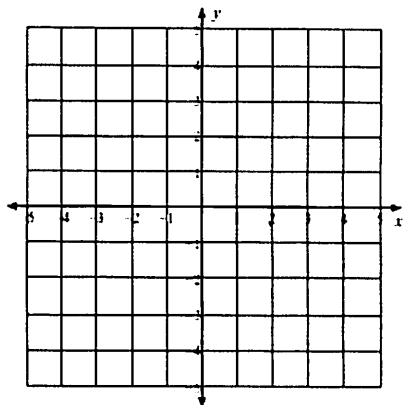
37.	38.	39.
40.	41.	42.

Adding and Subtracting Integers

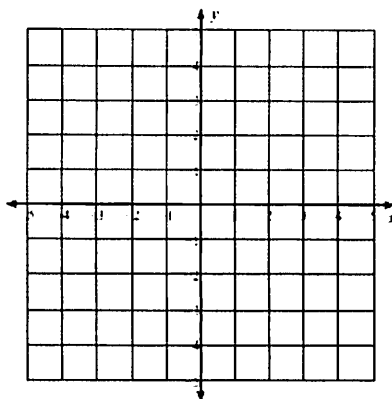
43.	44.	45.
46.	47.	48.

Plotting Points

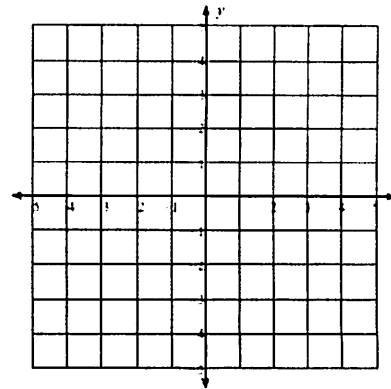
49.



50.



51.



52.

P (__ , __)

Q (__ , __)

R (__ , __)

53.

C (__ , __)

D (__ , __)

E (__ , __)

54.

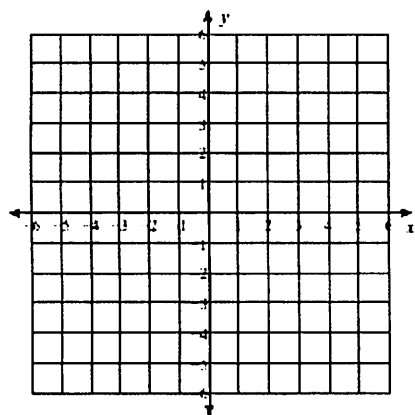
Q (__ , __)

R (__ , __)

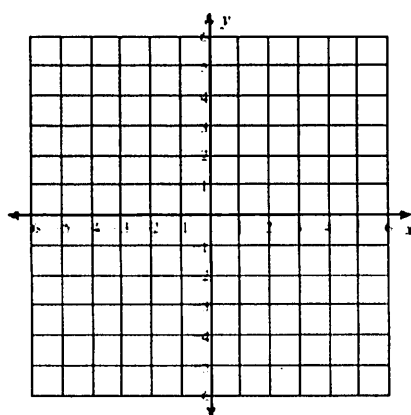
S (__ , __)

Graphing in Slope Intercept Form.

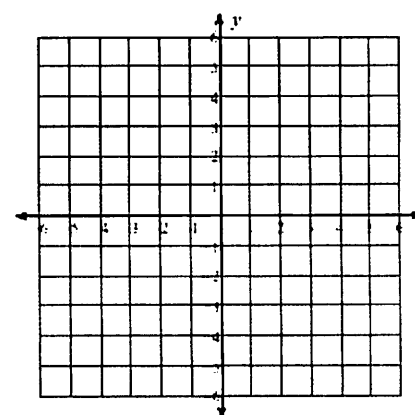
55.



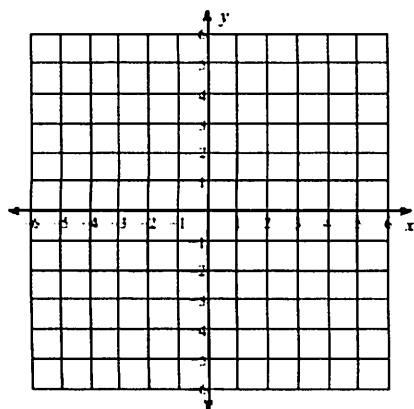
56.



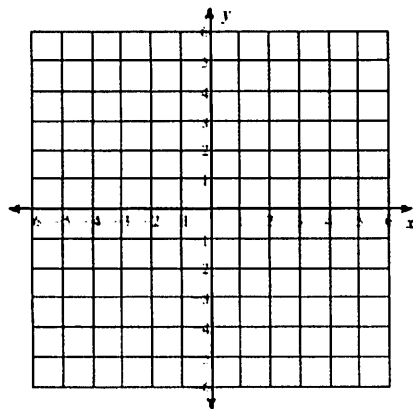
57.



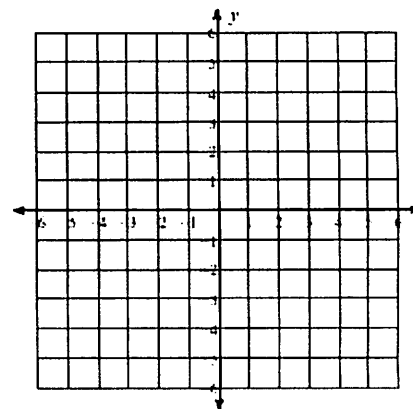
58.



59.



60.



Summer Work 2019

One Step Equation: Solve each equation.

1) $17 = \frac{n}{6}$

2) $-5n = -50$

3) $-19 = -14 - x$

4) $11 = n + 5$

5) $60 = 15m$

6) $-33 = x - 17$

Two Step Equation: Solve each equation.

7) $-1 + \frac{a}{-18} = -2$

8) $79 = -4x - 1$

9) $5p + 3 = 63$

10) $6 = \frac{-5 + n}{-4}$

11) $8 = \frac{v}{-14} + 9$

12) $53 = 5 + 3x$

Evaluating Expressions: Evaluate each using the values given.

13) $m - 4 + n$; use $m = 1$, and $n = -6$

14) $(b)(c - 4)$; use $b = 5$, and $c = -3$

15) $q + pq + 6$; use $p = -6$, and $q = -5$

16) $(q)(q - (q + p))$; use $p = 6$, and $q = -2$

17) $mn - \left(\frac{n}{3}\right)^2$; use $m = -1$, and $n = -3$

18) $z + x - 6 - \frac{x}{3}$; use $x = -3$, and $z = 4$

Adding and Subtracting Fractions: Evaluate each expression. Leave your answer as improper fractions.

19) $\frac{7}{8} + \frac{1}{3}$

20) $\frac{15}{8} - \frac{1}{6}$

21) $\frac{15}{8} - \frac{1}{5}$

22) $2 + \frac{2}{7}$

23) $\frac{9}{7} + 1 - \frac{1}{5}$

24) $\frac{3}{2} - \frac{3}{7} + \frac{1}{2}$

Multiplying Fractions: Find each product.

$$25) \left(-\frac{15}{8}\right)\left(\frac{8}{5}\right)$$

$$26) \left(-\frac{2}{7}\right)\left(\frac{7}{4}\right)$$

$$27) \left(\frac{5}{3}\right)\left(-\frac{8}{5}\right)$$

$$28) (-2)\left(\frac{15}{8}\right)$$

$$29) \left(-\frac{5}{3}\right)\left(-\frac{4}{3}\right)\left(-\frac{2}{3}\right)$$

$$30) (-8)\left(\frac{9}{8}\right)\left(\frac{1}{7}\right)$$

Distribute and Combine Like Terms: Simplify each expression.

$$31) -8a + 6 + 2$$

$$32) 8n - 3n$$

$$33) -7(1 + 4v) + v$$

$$34) 4k + 4(2 - 6k)$$

$$35) 8(8v + 4) + 8(6 - 2v)$$

$$36) -4(-2m - 7) + 2(m - 4)$$

Order of Operations: Evaluate each expression.

$$37) \frac{4}{(4)(2) - 6}$$

$$38) (4)(5) - (3 + 2)$$

$$39) (5)(6 - 4) - 6 + 3$$

$$40) (2)((3 + 2)(5 - 1))$$

$$41) 6^2 + 6 - \frac{16}{6 - 2}$$

$$42) (4 - 3)\left(\frac{15}{3} - (5 - 3)\right)$$

Adding and Subtracting Integers: Evaluate each expression.

$$43) 4 - 3$$

$$44) -4 - -6$$

$$45) 8 + 6 + -4$$

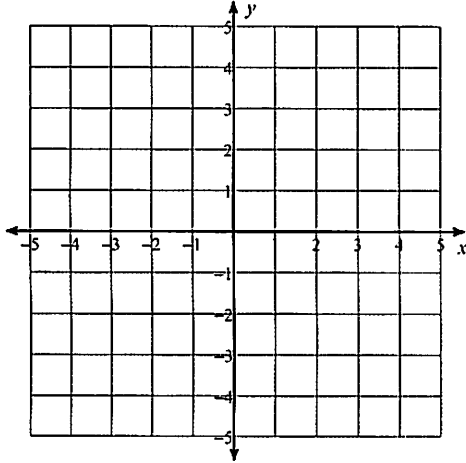
$$46) 1 - -1 + 8$$

$$47) 4 + -2 + 5 - -4$$

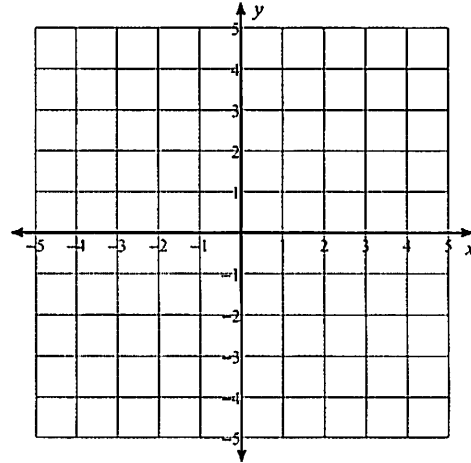
$$48) 8 + -4 - -4 - 1$$

Plotting Points: Plot each point.

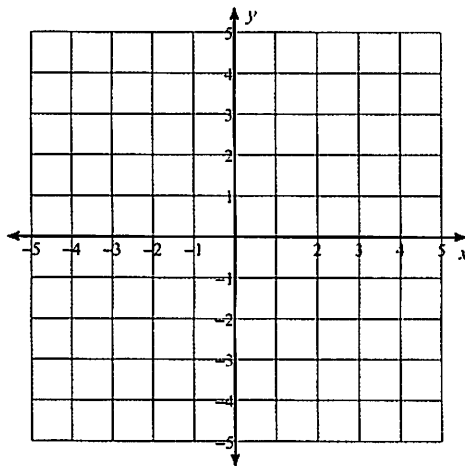
49) $U(-4, -5)$ $V(0, -4)$ $W(-2, 4)$



50) $R(-1, 0)$ $Q(5, 1)$ $P(1, 1)$

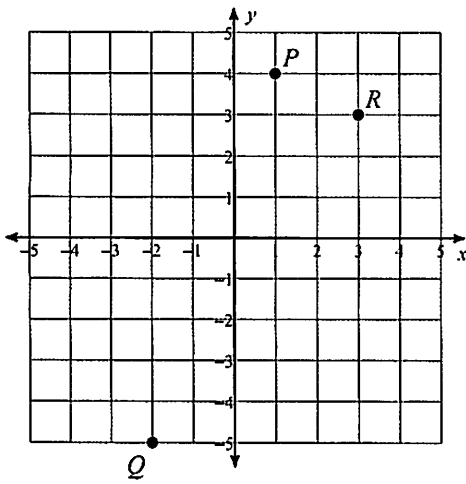


51) $S(-3, 3)$ $T(4, 1)$ $U(3, -2)$

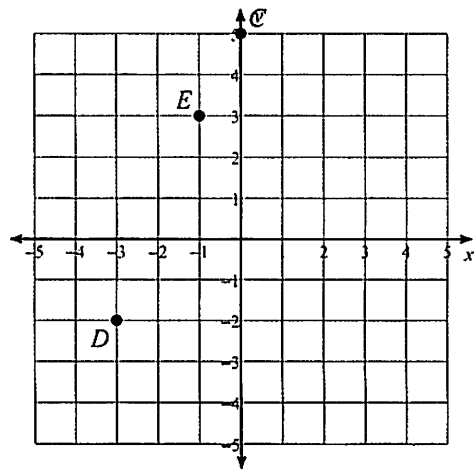


State the coordinates of each point.

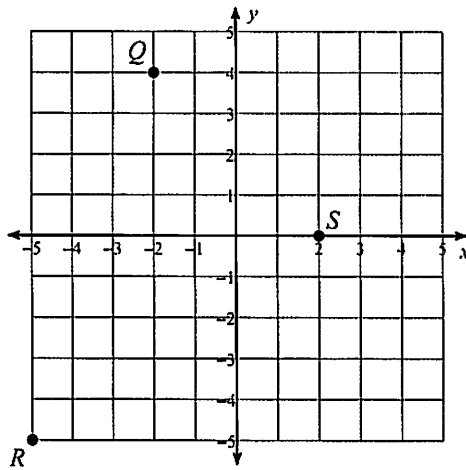
52)



53)

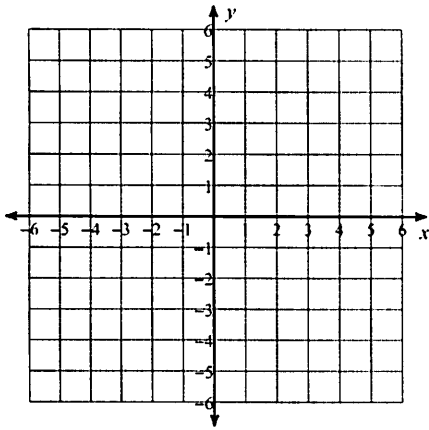


54)

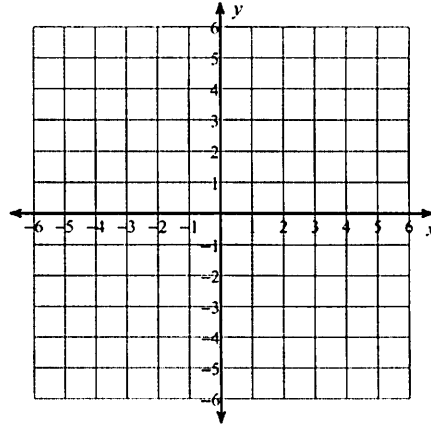


Graphing in Slope Intercept Form: Sketch the graph of each line.

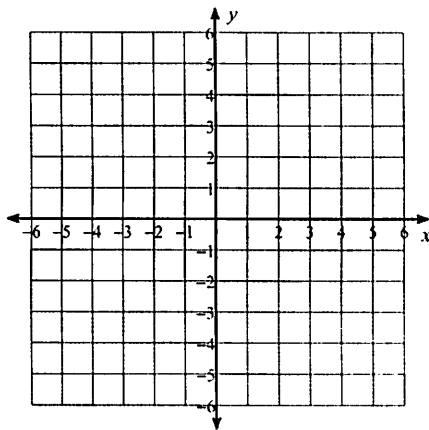
55) $y = -\frac{9}{5}x + 5$



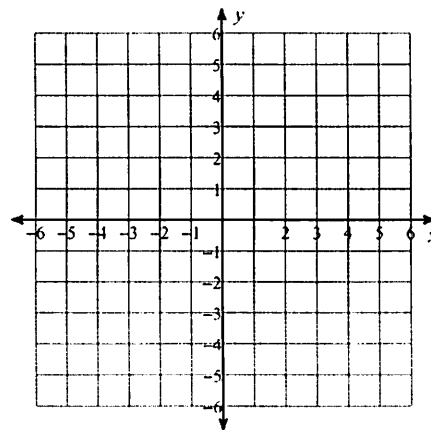
56) $y = -2x - 4$



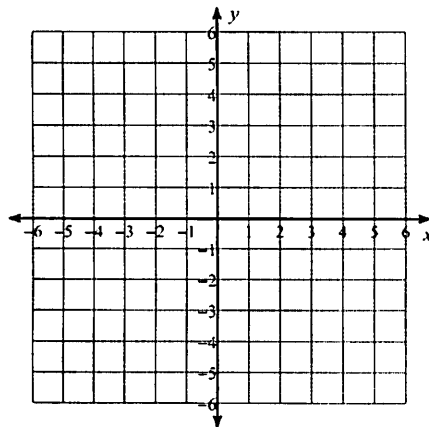
57) $y = \frac{3}{4}x + 1$



58) $y = \frac{1}{2}x + 2$



59) $y = x - 4$



60) $y = -x - 5$

