

Algebra 1 Summer Packet



Dear Student,

Welcome to Sayreville War Memorial High School and your math course for the year! There is much to learn this year, and each class session during school will require students to work diligently, both during and outside of class. This summer Math packet addresses the material that you should be comfortable with before the start of Algebra1-9. This Math packet serves 2 purposes:

- 1) It will allow you to remain mathematically fresh during the summer and
- 2) It will enable you to “hit the ground running” when this course begins.

This packet should be completed and brought with you on the first day of school. Use the answer key provided to check your work. If you come across questions that you are unsure of, make note and bring that up to your teacher during the review. It would be a mistake to complete this packet immediately upon the completion of this past school year as well as waiting until just before the next school year begins. Take some time off and look towards beginning the packet come mid-summer. It is important that the techniques practiced in this packet are fresh in your mind come the first day of school.

You will be assessed on this content within the first week or so of school.

Good luck!

Name: _____

Topics with Helpful Links:

Scan the QR code to access the links!



- Operations with Integers
 - [*Adding and subtracting integers*](#)
 - [*Multiplying and dividing integers*](#)
- Operations with Fractions
 - [*Adding and subtracting*](#)
 - [*Multiplication*](#)
 - [*Division*](#)
- Order of Operations
 - [*Article*](#)
 - [*Video Examples*](#)
- Evaluating Expressions
 - [*Video*](#)
- Combining Like Terms
 - [*Article*](#)
 - [*Video*](#)
- [*Distributive Property*](#)
- [*Coordinate Plane*](#)

Summer Assignment 2022

Date _____ Period _____

Evaluate each expression.

1) $5 - (-3)$

2) $3 - (-2)$

3) $(-6) + 5$

4) $(-8) - (-1)$

5) $2 - 5 - 5$

6) $(-2) + 7 - 4$

7) $(-3) + 5 - 8$

8) $(-6) + 5 - (-1)$

Find each product.

9) 3×-10

10) -8×-6

$11) -9 \times -2$

$12) -6 \times -10$

$13) -7 \times 8 \times 6$

$14) 4 \times -4 \times 3$

$15) -7 \times 2 \times -5$

$16) -3 \times 2 \times 6$

Find each quotient.

$17) -20 \div -4$

$18) 24 \div 6$

$19) 16 \div 4$

$20) 15 \div -5$

$21) \frac{-60}{10}$

$22) \frac{-72}{-8}$

$$23) \frac{-50}{10}$$

$$24) \frac{-28}{-4}$$

Evaluate each expression.

$$25) \left(-\frac{7}{4}\right) + \left(-\frac{1}{6}\right)$$

$$26) (-1) - \frac{1}{2}$$

$$27) \left(-\frac{9}{8}\right) + \frac{7}{6}$$

$$28) \left(-\frac{5}{7}\right) - \frac{1}{4}$$

Find each product.

$$29) -2 \times -\frac{5}{4}$$

$$30) \frac{13}{8} \times -\frac{2}{7}$$

$$31) -\frac{1}{2} \times -\frac{6}{5}$$

$$32) -5 \times -\frac{3}{2}$$

Find each quotient.

$$33) \frac{2}{3} \div \frac{5}{4}$$

$$34) \frac{7}{9} \div \frac{-10}{9}$$

$$35) \frac{-13}{8} \div \frac{11}{10}$$

$$36) -1 \div \frac{-1}{8}$$

Evaluate each expression.

$$37) 2 + 5 \times 5$$

$$38) 6 - 4 \div 2$$

$$39) (1 + 1) \times 10 \div 5$$

$$40) (6 - 5) \times 6^2$$

$$41) (6 + 1)^2 - 5 - 3$$

$$42) 5(4 + 3 - 12 \div 2)$$

Evaluate each using the values given.

43) $(x + y)^2$; use $x = 3$, and $y = 3$

44) $5(p - m)$; use $m = 1$, and $p = 3$

45) $x - (y^2 - 2)$; use $x = 3$, and $y = 2$

46) $\frac{m}{5} - p + m$; use $m = 5$, and $p = 1$

47) $4y - \frac{3}{3} + x$; use $x = 5$, and $y = 6$

48) $m - (n + n - n + n)$; use $m = 6$, and $n = 2$

Simplify each expression.

49) $-3 + 9r + 3r$

50) $1 + 5n + 8n$

51) $3(-7r + 9)$

52) $2(1 + 10x)$

$$53) 7(b + 1)$$

$$54) -5(k - 3)$$

$$55) 7 + 10(5r - 9)$$

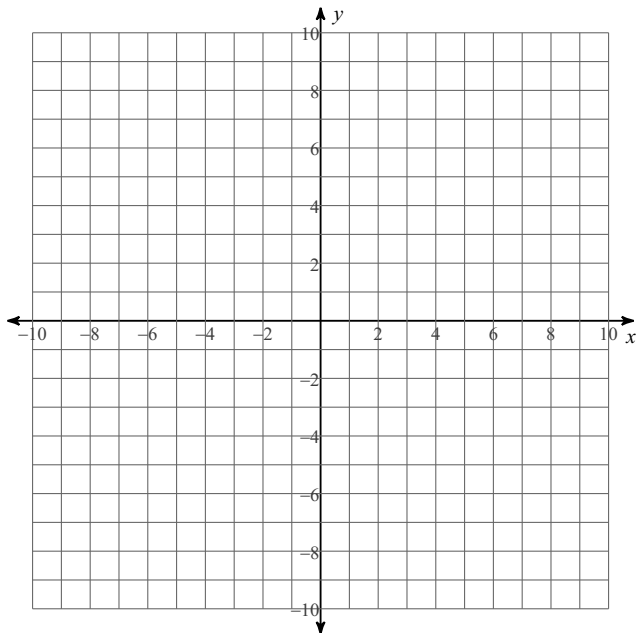
$$56) -2n + 8(9 + 2n)$$

$$57) 10 + 3(x + 6)$$

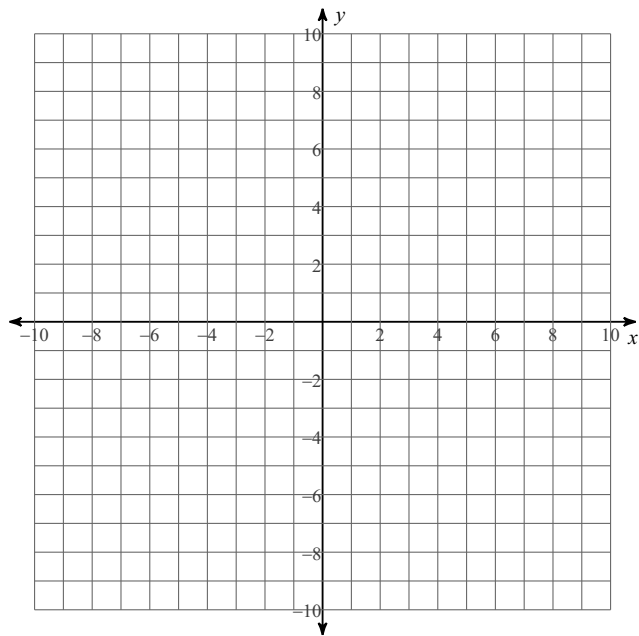
$$58) 10(8 - 7x) - 3$$

Plot each point.

$$59) \begin{matrix} V(9, -9) & U(-1, 0) & T(10, -8) \\ S(-8, -9) & R(-8, -5) \end{matrix}$$

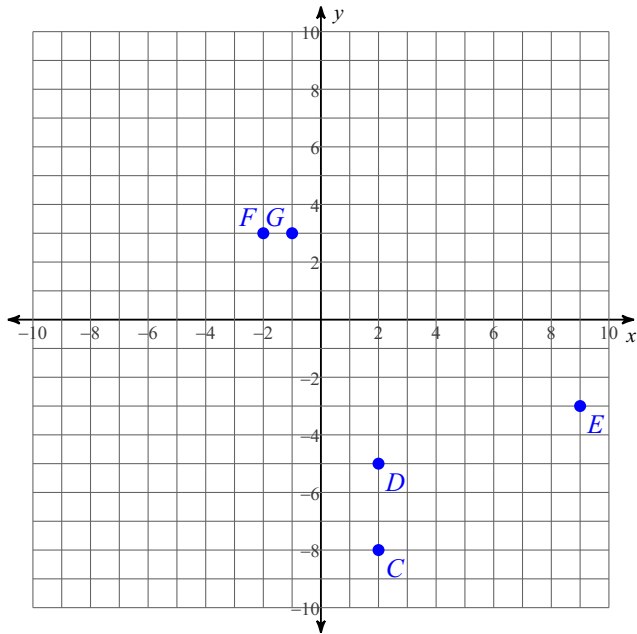


60) $I(1, -2)$ $J(-7, -7)$ $K(3, 6)$
 $L(-10, -5)$ $M(8, -3)$



State the coordinates of each point.

61)



62)

