

NKHS Algebra 1 Students,

Algebra 1 summer packet is designed to review skills middle school math and Pre-Algebra that are essential to your success in Algebra 1. Bring this **completed** packet on the **first day of school**. During the first two classes, you will be given the opportunity to ask questions about the material covered in this packet.

Your task is to complete the problems with work shown. If there is a problem you do not remember or seems like new material, you must be resourceful and utilize the online resources provided, a study group, or a knowledgeable adult. Remember, you will be taking an assessment (quiz) the first week of school. Practice makes perfect, so practice extra problems of a concept you may be struggling with.

Please purchase a three ring binder for class. You will need paper, graph paper and a pen or pencil. It will be helpful for you to have both lined and graphing paper. The school will provide you with a calculator during class time and after school. It may be helpful to have one at home, but it is not required.

The intention of the summer practice is not for you to spend your summer doing math. Enjoy the month of July. Pace out the work through the month of August. This will allow to you to start school better prepared. If this work is too overwhelming or too difficult, you may want to discuss your course selection with your guidance counselor.

North Kingstown High School Math Teachers

Add or Subtract Integers

1) $-6 - 2$

2) $5 - (-6)$

3) $-3 + 5$

4) $2 - 5$

5) $-5 - 4$

6) $(-5) - (-8)$

7) $1 - 8$

8) $-3 + 7$

Add or Subtract Fractions

9) $-\frac{11}{6} - \frac{1}{6}$

10) $\frac{4}{3} - \frac{5}{3}$

11) $\frac{5}{3} - \frac{3}{2}$

12) $-2 - \frac{7}{8}$

$$13) \left(-\frac{4}{7}\right) + \frac{3}{2}$$

$$14) 2\frac{3}{4} - 3\frac{1}{4}$$

$$15) -3\frac{1}{2} - 1\frac{5}{6}$$

Multiply Integers

$$16) (3)(-7)$$

$$17) (-10)(-5)$$

$$18) (-4)(-5)$$

$$19) (-10)(4)$$

Multiply Fractions

$$20) (-2)\left(-\frac{3}{4}\right)$$

$$21) \left(-\frac{5}{3}\right)\left(\frac{3}{5}\right)$$

22) $\left(-3\frac{1}{2}\right)\left(2\frac{5}{7}\right)$

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

Dividing Integers

24) $\frac{70}{-7}$

25) $\frac{-20}{-4}$

26) $\frac{-20}{-2}$

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

Divide Fractions

28) $-2 \div \frac{-1}{2}$

29) $\frac{9}{5} \div \frac{-6}{5}$

30) $5\frac{1}{2} \div -1\frac{3}{8}$

Use the Order of Operations (PEMDAS) to evaluate each expression.

31) $-4 + (-2)(7) + 2$

32) $\frac{7}{-1} + 8$

$$33) (-10)(-7) + 5$$

$$34) 5(10 - 9) - 8$$

$$35) -\frac{9 \cdot 2}{6} + 10$$

$$36) 6 + \frac{10}{8 - 6}$$

Simplify each expression by distributing and/or combining like terms

$$37) 9k - 7 + 2k + 4$$

$$38) m - 8 + 4 - 4m$$

$$39) 5(p + 10)$$

$$40) 4(-6x - 2)$$

$$41) -(3x + 1)$$

$$42) -2(9 + 9n) - 7n$$

$$43) -10 + 3(x - 9)$$

$$44) 8(5 + 10n) - 8n$$

Solve each equation.

45) $-6 = n + 13$

46) $-2 + v = -16$

47) $m + 2 = 8$

48) $-9 = -11 + k$

49) $24 = -2x$

50) $-5n = -30$

51) $\frac{m}{3} = -6$

52) $\frac{x}{-5} = -2$

$$53) 3x + 1 = -8$$

$$54) -25 = 3 - 7x$$

$$55) 1 - 5n = 56$$

$$56) 73 = 10 - 7x$$

Answers to Algebra 1 - Summer Packet 20 (ID: 1)

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|---------------------|---------------------|---------------------|---------------------|
| 1) -8 | 2) 11 | 3) 2 | 4) -3 |
| 5) -9 | 6) 3 | 7) -7 | 8) 4 |
| 9) -2 | 10) $-\frac{1}{3}$ | 11) $\frac{1}{6}$ | 12) $-\frac{23}{8}$ |
| 13) $\frac{13}{14}$ | 14) $-\frac{1}{2}$ | 15) $-5\frac{1}{3}$ | 16) -21 |
| 17) 50 | 18) 20 | 19) -40 | 20) $\frac{3}{2}$ |
| 21) -1 | 22) $-9\frac{1}{2}$ | 23) $7\frac{1}{3}$ | 24) -10 |
| 25) 5 | 26) 10 | 27) -6 | 28) 4 |
| 29) $-\frac{3}{2}$ | 30) -4 | 31) -16 | 32) 1 |
| 33) 75 | 34) -3 | 35) 7 | 36) 11 |
| 37) $11k - 3$ | 38) $-3m - 4$ | 39) $5p + 50$ | 40) $-24x - 8$ |
| 41) $-3x - 1$ | 42) $-18 - 25n$ | 43) $-37 + 3x$ | 44) $40 + 72n$ |
| 45) $\{-19\}$ | 46) $\{-14\}$ | 47) $\{6\}$ | 48) $\{2\}$ |
| 49) $\{-12\}$ | 50) $\{6\}$ | 51) $\{-18\}$ | 52) $\{10\}$ |
| 53) $\{-3\}$ | 54) $\{4\}$ | 55) $\{-11\}$ | 56) $\{-9\}$ |