

Algebra 1 Summer Packet

Name _____

Write the whole number in words.

1) 9,300,695

1) _____

Add.

$$\begin{array}{r} 2) \\ 587,142 \\ 30,645 \\ + 5,300,621 \\ \hline \end{array}$$

2) _____

Round the whole number to the given place.

3) 49,815,425 to the nearest million

3) _____

Simplify.

4) $12 + 16 \div 4 \cdot 5 - 8$

4) _____

Write the phrase as a variable expression. Use x to represent "a number."

5) The quotient of a number and 9, decreased by 4

5) _____

Add.

6) $1 + (-5) + 14 + (-2) + 4 + (-7)$

6) _____

Add or subtract as indicated.

7) $9 - 0 - 5 - (-20) + (-11)$

7) _____

Find the quotient.

8) $\frac{0}{5}$

8) _____

Simplify.

9) $\frac{20(-1) - (-4)(-5)}{2[-12 \div (-3 - 3)]}$

9) _____

Solve the equation.

10) $-30 = y - 24$

10) _____

Simplify the expression.

11) $15 - |-30|$

11) _____

12) $\frac{30}{5} - \frac{9^2}{9}$

12) _____

Simplify the expression by combining like terms.

13) $-4b - 3a + 2c + 3b - 5a$

13) _____

Simplify the expression.

14) $4(6x + 2) + 5(x + 4)$

14) _____

Write the fraction in simplest form.

15) $-\frac{51}{57x}$

15) _____

Divide and simplify.

$$16) \frac{3}{8} \div -\frac{5}{6}$$

16) _____

Perform the indicated operations. Write the answer in simplest form.

$$17) \frac{6}{5} \div \left(\frac{20}{7} \cdot \frac{6}{50} \right)$$

17) _____

Add or subtract as indicated. Write the answer in simplest form.

$$18) \frac{6}{17x} - \frac{15}{17x}$$

18) _____

$$19) \frac{7}{15} + \frac{9}{15} - \frac{1}{15} - \frac{2}{15}$$

19) _____

Add or subtract as indicated. Write the answer in simplest form.

$$20) \frac{5}{8} - \frac{1}{3}$$

20) _____

Add or subtract as indicated. Write the answer as a mixed number in simplest form.

$$\begin{array}{r} 21) \quad 1\frac{1}{6} \\ \quad 2\frac{1}{16} \\ \quad + 2\frac{1}{4} \\ \hline \end{array}$$

21) _____

Solve.

$$22) \frac{a}{2} - \frac{1}{2} = -6$$

22) _____

$$23) \frac{x}{9} = \frac{x}{10} + \frac{1}{9}$$

23) _____

Simplify the complex fraction.

$$24) \frac{\frac{3x}{7}}{\frac{2x^2}{7}}$$

24) _____

Solve.

$$25) \frac{x}{4} - \frac{x}{5} = \frac{5}{4}$$

25) _____