

Summer Packet for Students Entering Algebra I Due: Friday August 23, 2024

Name _____

Welcome to Algebra I! This packet contains the topics that you have learned in your previous courses. Please read the directions, complete the problems (with all work shown).

Simplify. SHOW YOUR WORK!!

1) $425 + 275$

2) $230 - 760$

3) $7 \cdot 1.6$

4) $\frac{37.5}{2.5}$

5) $\frac{1}{6} + \frac{2}{3}$

6) $\frac{5}{8} - \frac{1}{4}$

7) $\frac{7}{9} \cdot \frac{3}{14}$

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

9) Estimate: $2001 \div 49$

10) Round 3.9619 to

11) Write 0.625 as a fraction.

a) the nearest tenth _____

b) the nearest hundredth _____

Write as a ratio in lowest terms.

12) 20g to 50g

13) 7cm to 1m

14) 8 in. to 2 ft.

Simplify.

- 15) 5 is what percent of 50? 16) 10% of 260 is what number? 17) 3 is 12% of what number?

18) Write the decimals in order from least to greatest: 3.08, 3.0, 3.006, 3.0008, 3.7

19) Find the perimeter and area of a 10 in. by 6 in. rectangle.

Simplify.

20) $3 - 5$

21) $11 - (-2)$

22) $(-4)(-6)$

23) $-15 \div 3$

24) $3 + 6x - 4$

25) $5x + 1 - 3x$

Write a variable expression.

26) 8 plus y

27) twice n decreased by 9

28) $\frac{1}{3}$ of the sum of x and y

Solve.

29) $y + 4 = 20$

30) $4x = 26$

31) $3x + 7 = 25$

32) $2n - 5 = 4n + 9$

33) $\frac{x}{9} = 3$

34) $\frac{2}{3}x = 8$

35) Amy's dog is 12 pounds heavier than Liz's dog. Together the dogs weigh 98 pounds. How much does Amy's dog weigh?

36) A postal clerk sold some fifteen-cent stamps and some twenty-five cent stamps. Altogether, 10 stamps were sold for a total cost of \$1.70. How many of each type of stamp were sold?