Summer Packet for Students Entering Algebra I Due: Friday September 1, 2023
Name $\qquad$
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) $7 \bullet 1.6$
4) $\frac{37.5}{2.5}$
5) $\frac{1}{6}+\frac{2}{3}$
6) $\frac{5}{8}-\frac{1}{4}$
7) $\frac{7}{9} \bullet \frac{3}{14}$
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 $\qquad$
b) the nearest hundredth $\qquad$

Write as a ratio in lowest terms.
12) 20 g to 50 g
13) 7 cm to 1 m
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?
16) Write the decimals in order from least to greatest: $3.08,3.0,3.006,3.0008,3.7$
17) Find the perimeter and area of a 10 in . by 6 in . rectangle.

Simplify.
18) $3-5$
19) $11-(-2)$
20) $(-4)(-6)$
21) $-15 \div 3$
22) $3+6 x-4$
23) $5 x+1-3 x$

Write a variable expression.
24) 8 plus $y$
25) twice $n$ decreased by 9
26) $\frac{1}{3}$ of the sum of $x$ and $y$

Solve.
27) $y+4=20$
28) $4 x=26$
29) $3 x+7=25$
30) $2 n-5=4 n+9$
31) $\frac{x}{9}=3$
32) $\frac{2}{3} x=8$
33) Amy's dog is 12 pounds heavier than Liz's dog. Together the dogs weigh 98 pounds. How much does Amy's dog weigh?
34) 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?

