

Name \_\_\_\_\_

Date \_\_\_\_\_

Period \_\_\_\_\_

Write each as an algebraic expression.

- 1) the sum of 10 and 8
- 2) the difference of 21 and 9

Evaluate each expression.

- 3)  $1 + 5 - 1$
- 4)  $2 \times 3^2$
- 5)  $(3 + 2) \times 2$
- 6)  $(6 - 4) \times 3$

Solve each equation.

- 7)  $-5r = -5$
- 8)  $195 = -13n$
- 9)  $7m = 91$
- 10)  $3 = \frac{x}{16}$

- 11) Nicole and her best friend found some money under the couch. They split the money evenly, each getting \$29. How much money did they find?

- 13) Jack ran 24.5 miles less than Ted last week. Jack ran 15.8 miles. How many miles did Ted run?

- 12) Huong ran 4 miles less than Shawna last week. Huong ran 16 miles. How many miles did Shawna run?

- 14) A colony of ants carried away 6 of your muffins. That was  $\frac{3}{4}$  of all of them! With how many did you start?

Solve each equation.

- 15)  $\frac{10+a}{5} = 2$
- 16)  $-4x - 1 = -81$
- 17)  $\frac{8+k}{2} = -3$
- 18)  $3 = \frac{p-8}{3}$

- 19) Anjali's Bikes rents bikes for \$15 plus \$8 per hour. Ryan paid \$55 to rent a bike. For how many hours did he rent the bike?

- 20) Julia won 47 pieces of gum playing the bean bag toss at the county fair. At school she gave two to every student in her math class. She only has 7 remaining. How many students are in her class?

- 21) Asanji won 31 lollipops playing the bean bag toss at the county fair. At school he gave two to every student in his math class. He only has 1 remaining. How many students are in his class?

- 22) Castel had some candy to give to his five children. He first took three pieces for himself and then evenly divided the rest among his children. Each child received two pieces. With how many pieces did he start?

Solve each equation.

- 23)  $-5(6n - 1) = 5$
- 24)  $-28 = -2(4 - 2x)$
- 25)  $10 - 2v = 5(2 + 2v)$
- 26)  $-5 + 8(b - 5) = -35 + 3b$
- 27)  $-5(1 - 2n) = -3 + 4(n + 7)$
- 28)  $-5x + 6x = -8(x - 5) - 4(4 - 3x)$