

Topic 3: Equations

Date _____ Period _____

Solve each equation.

1) $\frac{x}{2} = -13$

2) $-28 = -13 + p$

3) $-14 = p - 2$

4) $13 = -2 - x$

5) $7a = 7$

6) $b + 8 = 17$

7) $-8 - 6b = 88$

8) $26 = 5 - 7v$

9) $\frac{x + 10}{6} = 1$

10) $-1 = \frac{r}{9} - 2$

11) $2m - 6 = -14$

12) $\frac{n}{2} + 6 = 10$

$$13) 6 = \frac{m}{6} + 5$$

$$14) \frac{p+3}{4} = -3$$

$$15) 9 = 3n - 9$$

$$16) -3 = \frac{v+6}{4}$$

17) Stephanie wants to buy a sweater that costs \$13. How much change does she receive if she gives the cashier \$15?

18) Natalie paid \$3.18 for a salad. She now has \$16.62. With how much money did she start?

19) Elisa won 75 super bouncy balls playing hoops at the county fair. At school she gave one to every student in her math class. She only has 52 remaining. How many did she give away?

20) Bill will be 26 years old in ten years. How old is he now?

21) A wise man once said, "400 reduced by 3 times my age is 172." What is his age?

22) Molly won 122 super bouncy balls playing hoops at the county fair. At school she gave four to every student in her math class. She only has 2 remaining. How many students are in her class?

Answers to Topic 3: Equations (ID: 1)

- 1) $\{-26\}$
- 5) $\{1\}$
- 9) $\{-4\}$
- 13) $\{6\}$
- 17) \$2
- 21) 76

- 2) $\{-15\}$
- 6) $\{9\}$
- 10) $\{9\}$
- 14) $\{-15\}$
- 18) \$19.80
- 22) 30

- 3) $\{-12\}$
- 7) $\{-16\}$
- 11) $\{-4\}$
- 15) $\{6\}$
- 19) 23

- 4) $\{-15\}$
- 8) $\{-3\}$
- 12) $\{8\}$
- 16) $\{-18\}$
- 20) 16