Algebra 1
Mrs. Moore

Name: Key- Moore

1.1-1.3 Review

Section 1.1 Things to Know:

- Translating between words and expressions
- Evaluating expressions

Give two ways to write each algebraic expression in words.

1. $j-3$ j minus 3
   3 less than j

2. $4p$ 4 times p
   the product of 4 and p

3. Mark is 5 years older than Juan, who is y yers old. Write an expression for Marks age.

   years

   $y+5$

Evaluate each expression for c = 6, d = 5, and e = 10

4. $\frac{d}{e}$ $\frac{5}{10} = \frac{1}{2}$

5. $c+d$ $6+5=11$

6. $d-c$ $5-6=-1$

7. $(-c)(-d)(-e)$

   $(-6)(-5)(-10)$

   -300

8. Shemika practices basketball for 2 hours each day.
   a. Write an expressions for the number of hours she practices in d days.

      $2d$

   b. Find the number of hours she practices in 5, 12, and 20 days.

      $2(5) = 10$ hours
      $2(12) = 24$ hours
      $2(20) = 40$ hours

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Section 1.2 Things to Know

- Solving one-step equations using addition and subtraction
- Writing and solving one-step equations using addition and subtraction from word problems.

9. $r-4=-8$

$r=-4$

10. $\frac{5}{12}=s-\frac{11}{12}$

$\frac{16}{12}=s$

$4\frac{1}{3}$

11. $m+13=58$

$m=45$

12. $0.75=n+0.6$

$.15=n$

13. $-5+c=22$

$c=27$

14. $7+y=4$

$y=-3$

15. This year a high school had 578 sophomores enrolled. This is 89 less than the number enrolled last year. Write and solve an equation to find the number of sophomores enrolled last year.

$578=n-89$

$667=n$

667 sophomores

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Section 1.3 Things to Know

- Solving one-step equations using multiplication and division
- Writing and solving one-step equations using multiplication and division from word problems.

16. $-3 = \frac{m}{-7}$

$m = 21$

19. $126 = -9y$

$y = -14$

17. $\frac{x}{100} = 0.028$

$x = 2.8$

20. $\frac{2}{5}m = 16$ $\cdot \frac{5}{2}$

$m = 40$

18. $8y = 4$

$y = \frac{1}{2}$

21. $\frac{15}{16}c = \frac{25}{48}$ $\cdot \frac{16}{15}$ $= \frac{5}{9}$

22. A person's weight on Venus is about 9/10 his or her weight on Earth. Write and solve an equation to find out how much a person weighs on Earth if he or she weighs 108 pounds on Venus.

$\text{Venus} = \frac{9}{10}(\text{Earth})$

$\frac{10}{9} \cdot 108 = \frac{9}{10}x$

$120 = x$

120 pounds

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Multiple Choice Practice.

23. Which expression shows *3 less than x*?

A $3 - x$

B $3x$

C $x - 3$

D $\frac{x}{3}$

24. Solve $-12 = \frac{w}{-4}$.

F -48

G -3

H 3

J 48

25. Solve $5 + h = -6$.

F -11

G -1

H 1

J 11

26. Solve $-3y = -12$.

A -15

B -9

C 4

D 36

27. Solve $-\frac{7}{8} = m - \frac{3}{8}$.

A $-\frac{5}{4}$

B $-\frac{1}{2}$

C $\frac{1}{2}$

D $\frac{5}{4}$

28. Solve $-\frac{4}{5}x = -2$.

F $-\frac{5}{2}$

G $-\frac{8}{5}$

H $\frac{8}{5}$

J $\frac{5}{2}$