Thurs 1/14

Chapter 5 Algebra Name LOZ

1. What is the value of the expression

$\frac{2p}{4} + 3$ when p is 8? 7

$p = 8 \quad 8 \times 2 = 16 \div 4 = 4, \quad 4 + 3 = 7$

2. Write the expression for 50 less than the sum of 6 and y $(6+y)-50$

3. Find the value of the expression when the variable has a value of 6. 8

$(y+4) \div 2 + 3 \qquad y = 6$

4. Write an expression $(6+4) \div 2 + 3$

Add 4 to r, then divide by 3 $10 \div 2 + 3 = 8$

$(4+r) \div 3$

5. Divide 8 by x, then subtract 4

$\frac{x}{8} - 4$

6. Half of r.

7. $\frac{1}{2} \times r$

$\frac{1}{2}r$

Simplify

7. $4h + 5 + 6h$

$10h + 5$

8. $12 - 6x + 2x$

$12 - 8x$

9. $10y - 2y - 4$

$8y - 4$

10. Beth has y dollars. She spends \$10 on a purse and the rest on 3 candy bars.

a. Find the cost of each candy bar in terms of y.

$3c + 10$

b. If Beth had \$19 at first, find the cost of each candy bar.

$3c + 10 = 19$

$-10 \quad -10$

$3c = 9$

$c = 3$

$\frac{3c}{3} \quad \frac{9}{3}$

$1 \quad 3 \qquad 3$

$c = 3$

Study Guide

Evaluate each expression shown using $y=4$.

1. $3y-2=10$

$3\times4=12-2=10$

2. $(28-3y)\div2=8$

$4\times3=12\ 28-12=16\div2=8$

3. $2y+7=15$

$2\times4=8+7=15$

4. $(10+8y)\div3=14$

$10+32\ 8\times4=32\ 42\div3=14$

42

5. What is the value of the expression when $y=2$?

$$\frac{4y}{2}+8$$

$4\times2=8$

$8\div2=4+8=12$

6. What is the value of the expression when $r=6$?

$$\frac{3r}{9}-1$$

$3\times6=18$

$18\div9=2-1=1$ (1)

7. Write an expression for 40 less than the sum of 8 and t.

$(8+t)-40$

8. Find the value of the expression when the variable has a value of 2.

$(y+18)\div5+3$

$4+3=7$

$(2+18)\div5+3$

$20\div5+3$

9. Write an expression

a. Add 7 to b, then divide by 5.

$(7+b)\frac{1}{1}5$

10. Divide 6 by r, then subtract 3

$\frac{r}{6}-3$

Simplify

11. $9d-4d+7$ (2)

$5d+7$

$5d+7=12$

12. $14-8y+2y$

$14-10y$

13. Sue has x dollars. She spends #12 on a coffee cup and the rest on 2 ice teas.

a. Find the cost of each ice tea in terms of x $2i+12$

b. If Sue had #18 at first, find the cost of each ice tea.

$2i+12=18$ (3)

$\frac{2}{2}i=\frac{6}{2}$

$i=3$