Name: ANSWERS Date: _____

6th grade CHAPTER 3 Practice 1 2016

Identify the terms, coefficients, and constants in each variable expression. (3pts each)

1)

$$3a + 7b + 15$$

Terms: 3a, 7b, 15

Coefficients: 3, 7

Constants: 15

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2)

$$6c^2 + d - 9$$

Terms: $6c^2$, d, −9

Coefficients: 6, 1

Constants: −9

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3)

$$8 + 2e - 35$$

Terms: 8, 2e, −35

Coefficients: 2, ~~X~~

Constants: 8, −35

Evaluate the expression when x = 4 and y = 1. (2pts each)

4) $12 - x$

$12 - 4$

8

4) 8

Evaluate the expression when x = 4 and y = 1. (2pts each)

Answers

5) 5y

5×1

5

5) 5

6) $y^2 + 3$

$(1 \times 1) + 3$

$1 + 3$

4

6) 4

7) $9x - y$

$9(4) - 1$

$36 - 1$

35

7) 35

8) $4(x - 5)$

$4(4 - 5)$

$4(-1)$

-4

8) -4

Write an expression for each word phrase. (1pt each)

9) four less than the number e

Expression: $e - 4$

10) the quotient of a number f and 5

Expression: $\frac{f}{5}$

Write an expression for each word phrase. (1pt each)

11) the sum of 99 and a number h

Expression: $99 + h$

12) the product of a number g and 17

Expression: $17g$

13) 15 less than the number h

Expression: $h - 15$

Simplify the expression. (2pts each)

14) 2 + (g + 5)

$2 + 5 + g$

$7 + g$

Expression: $7 + g$

15) 3.4n + 9.6 – 2.1n

$3.4n - 2.1n + 9.6$

Expression: $1.3n + 9.6$

16) 4.4 + 6x – 2.7

$4.4 - 2.7 + 6x$

$1.7 + 6x$

Expression: $1.7 + 6x$

17) St. John 6th graders made baby baskets for their Advent Project. They donated $50 for little blankets. They bought each basket for $4, and paid $65 for toys. Write an expression for the amount of money used to create the Advent baskets. (3 pts)

$50 + 4x + 65$

$115 + 4x$

Expression: $115 + 4x$

Use the Distributive Property to solve. Write the missing numbers in the spaces. (3pts each)

18) 15(35)

(15 x 30) + (15 x 5)

450 + 75

525

Use the Distributive Property to solve. (3pts each)

19) 12 (23)

(12 x 20) + (12 x 3)

240 + 36

276

OR

12 x 30 − 12 x 7

360 − 84

276

20) 4(2g + 8)

(4 x 2g) + (4 x 8)

8g + 32

21) $4(5h + 9)$

$4(5h) + 4(9)$

$20h + 36$

Expression: $20h + 36$

22) $9(13j - 7)$

$9(13j) - 9(7)$

$117j - 63$

Expression: $117j - 63$