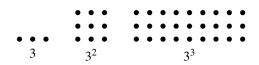
Date:

Which model best represents  $6^2$ ?



- \*\*\*
- c. \$\$\$\$\$\$ \*\*\*\*
- \*\*\* \*\*\* \*\*\* \*\*\* \*\*\*

How many dots will there be at  $3^5$ ?



How is the product  $2 \times 2 \times 2 \times 2 \times 2$  expressed in exponential notation?

B.  $5^2$ 

C.  $2 \times 5$  D.  $10^2$ 

How is the product  $3 \times 3 \times 3 \times 3$  expressed in exponential notation?

How is the product  $2 \times 2 \times 3 \times 5 \times 5$  expressed in exponential notation?

How is the product  $2 \times 2 \times 3 \times 3$  expressed in exponential notation?

How would 32 be written in exponential notation?

How would 125 be written in exponential notation?

9. 
$$4^8 =$$

10.  $2^6 =$ 

11. Look at the expression.



- A. 7 times some number
- B. 7 equals z
- C. 7 z
- D. 7 more than a number

How do you read the expression?

- 12. The expression  $\frac{b}{6}$  means—
  - A. some number minue 6
  - B. some number times 6
  - C. some number divided by 6
  - D. 6 subtracted from some number

13. If  $\triangle + \triangle + \triangle = 3x$  and  $\bigcirc + \bigcirc = 2$ , then what would  $\triangle + \bigcirc$  equal?

14. Write an algebraic expression for the following situation:

"twenty-seven increased by y"

15. If *n* represents a number, what is an algebraic expression for "a number increased by 57"?

16. Translate the verbal expression "four times the difference of *n* and three."

- 17. Which one of these is the correct expression for "p less than q?"
  - A. p < q B. p q C. p > q D. q p

18. Translate "five times the cube of the sum of t and u."

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19. Translate "four more than the difference of e squared and f."

- 20. Which of the following is an expression?
  - A.  $3 \le 2x 5$  B. 3x + 4
  - C.  $8 = \frac{25}{y} + 3$  D.  $\frac{x}{7} 7 > 6$

21. Look at the expression.

$$8(r + 3)$$

What are the terms of the expression?

22. Look at the expression.

$$5(3-2)$$

What are the factors of the expression?

23. Look at the expression.

$$6y - 2$$

Which of these is the coefficient?

- A. y
- B. 6
- C. 6y
- D. -2

24. Look at the expression.

$$-2 - 3$$

Which of the following describes the expression?

- the difference of two terms
- the product of a constant and a variable
- the product of two terms
- the quotient of two terms

25. Look at the expression.

$$\frac{(d+5)}{4}$$

Which of the following describes the expression?

- the difference of two terms
- the quotient of a constant and a variable
- the quotient of two terms
- the sum of four terms

26. Look at the expression.

$$t(6-4)$$

Which of the following describes the expression?

- the product of three constants
- the difference of a constant and a variable
- the product of two terms
- the sum of three terms

27. Which set of operators in the blanks would make the following statement true?

- A.  $\times$ , +, -
- B.  $\div$ ,  $\times$ , +
- C. ÷,+,×
- D. +, ×, –

- 28. If A stands for "add", S for "subtract", M for "multiply", and D for "divide", which one of the following sequences represents the correct *order* of operations when evaluating  $4 (-5 + 6 \times 7) \div 8$ ?
  - A. MDAS
- B. AMAD
- C. MADS
- D. AMDS

29. Simplify:  $\frac{2^3 + 188}{7^2}$ 

30. Simplify:  $\frac{5+5\cdot 5}{5}$ 

31. Evaluate  $8 + 2(a + b) - 10 \div b + a^2$  for a = 3 and b = 2

32. If x = 4 and y = 8, what is  $x^2 - y$ ?

- 33. In the equation,  $\frac{1}{7} \times \frac{1}{8} = \frac{1}{8} \times \frac{1}{7}$ , which property is demonstrated?
  - A. Associative property
  - B. Commutative property
  - C. Distributive property
  - D. none of these

- 34. In the equation,  $\frac{1}{7} \times (\frac{1}{8} \times \frac{3}{4}) = (\frac{1}{7} \times \frac{1}{8}) \times \frac{3}{4}$ , which property is demonstrated?
  - A. Associative property
  - B. Commutative property
  - C. Distributive property
  - D. none of these

35. Kate thought it would be helpful to rewrite  $39 \times 43 + 39 \times 57$  as 39(43 + 57). What property was she using?

36. While doing homework, Marcus rewrote  $27 \times 18 + 23 \times 89$  as 27(18 + 89).

Which of the following properties did Marcus use?

- A. Distributive property
- B. Commutative property
- C. Identity property
- D. Associative property

37. Look at the following.

$$3b -3m -3 \frac{m}{3}$$

Which are like terms?

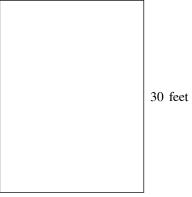
- A. 3b and  $\frac{m}{3}$
- B. 3b and -3
- C. -3m and  $\frac{m}{3}$ 
  - D. -3 and -3m

- 38. Look at the pairs of terms.
  - A.  $-3x^2$   $3x^2$
  - B. 3
  - C. 6 *c*
  - D. 4*b* 3*b*

Which of the pairs are unlike terms?

1.7

39. Each evening, Takumi walked around a park.



18 feet

Takumi used this number sentence to find the perimeter of the park:

$$2(30 + 18) = p$$

Which of the following number sentences could also be used to find the perimeter of the park?

- A. 2(30) + 2(18) = p
- B. 2(30 + 18) + 2(30 + 18) = p
- C. 2 + 30 + 2 + 18 = p
- D.  $\frac{30}{2} + \frac{18}{2} = p$

40. Complete: 3a + 6 = 6 + ?

41. Complete:  $2c + (3c - 4) = \Box - 4$ 

42. This expression shows a sum:

$$4y + 12w$$

Which of the following is an equivalent expression, written as a product?

- 43. The expression V(5+4) is the same as \_\_\_\_\_.
  - A. 20*V*
- B. 5V + 4V
- C. 5V 4V
- D. 9 · 2

- 44. The expression  $3 \times (L + W)$  is the same as \_\_\_\_\_.
  - A. 3*LW*
- B. 3L + 3W
- C.  $\frac{LW}{3}$
- D. L + 3W

## Problem-Attic format version 4.4.312

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Unit 4	Review	2/11/2018

		Omt 4 Review	2/11/2010	
1. Answer: Objective:	D 6.EE.1		15. Answer: Objective:	n + 57 6.EE.2A
2. Answer: Objective:	243 6.EE.1		16. Answer: Objective:	4( <i>n</i> – 3) 6.EE.2A
3. Answer: Objective:	A 6.EE.1		17. Answer: Objective:	D 6.EE.2A
4. Answer: Objective:	3 <sup>4</sup> 6.EE.1		18. Answer: Objective:	$5(t+u)^3$ 6.EE.2A
5. Answer: Objective:	$2^2 \times 3 \times 5^2$ 6.EE.1		19. Answer: Objective:	$(e^2 - f) + 4$ 6.EE.2A
6. Answer: Objective:	$2^2 \times 3^2$ 6.EE.1		20. Answer: Objective:	B 6.EE.2B
7. Answer: Objective:	2 <sup>5</sup> 6.EE.1		21. Answer: Objective:	8 and ( <i>r</i> + 3) 6.EE.2B
8. Answer: Objective:	5 <sup>3</sup> 6.EE.1		22. Answer: Objective:	5 and (3 – 2) 6.EE.2B
9. Answer: Objective:	4 × 4 × 4 × 4 × 4 × 4 × 4 × 4 6.EE.1		23. Answer: Objective:	B 6.EE.2B
10. Answer: Objective:	$2 \times 2 \times 2 \times 2 \times 2 \times 2$ 6.EE.1		24. Answer: Objective:	A 6.EE.2B
11. Answer: Objective:	A and C only 6.EE.2A		25. Answer: Objective:	C 6.EE.2B
12. Answer: Objective:	C 6.EE.2A		26. Answer: Objective:	C 6.EE.2B
13. Answer: Objective:	<i>x</i> + 1 6.EE.2A		27. Answer: Objective:	C 6.EE.2C
14. Answer: Objective:	27 + <i>y</i> 6.EE.2A			

28.

Answer: C

6.EE.2C Objective:

29.

Answer: 4

6.EE.2C Objective:

30.

Answer: 6

Objective: 6.EE.2C

31.

22 Answer:

Objective: 6.EE.2C

32.

Answer:

8

Objective: 6.EE.2C

33.

Answer:

В

Objective: 6.EE.3

34.

Α Answer:

Objective: 6.EE.3

35.

Answer: Distributive property

Objective: 6.EE.3

36.

Answer: A

6.EE.3 Objective:

37.

C Answer:

Objective: 6.EE.4

38.

C Answer:

Objective: 6.EE.4

39.

Answer: A

6.EE.4 Objective:

40.

Answer: 3*a* 

6.EE.4 Objective:

41.

Answer: 5*c* 

Objective: 6.EE.4

42.

Answer: 4(y + 3w)Objective: 6.EE.4

43.

Answer: В Objective: 6.EE.4

44.

Answer: В

6.EE.4 Objective: