$\qquad$

1．Which model best represents $6^{2}$ ？

B．


名 $\hat{*} \dot{\sim}$
D．$\dot{\sim}$

出

能


2．How many dots will there be at $3^{5}$ ？


3．How is the product $2 \times 2 \times 2 \times 2 \times 2$ expressed in exponential notation？
A． $2^{5}$
B． $5^{2}$
C． $2 \times 5$
D． $10^{2}$

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

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

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

7．How would 32 be written in exponential notation？

8．How would 125 be written in exponential notation？
9. $4^{8}=$
10. $2^{6}=$
11. Look at the expression.
$7 z$
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 $\mathbf{\Delta}+\boldsymbol{\Delta}+\boldsymbol{\Delta}=3 x$ and $\boldsymbol{O}+\boldsymbol{O}=2$, then what would $\boldsymbol{\Delta}+\boldsymbol{Q}$ 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 $u$."
19. Translate "four more than the difference of $e$ squared and $f$."
20. Which of the following is an expression?
A. $3 \leq 2 x-5$
B. $3 x+4$
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.

$$
6 y-2
$$

Which of these is the coefficient?
A. y
B. 6
C. $6 y$
D. -2
24. Look at the expression.

$$
-2-3
$$

Which of the following describes the expression?
A. the difference of two terms
B. the product of a constant and a variable
C. the product of two terms
D. the quotient of two terms
25. Look at the expression.

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

Which of the following describes the expression?
A. the difference of two terms
B. the quotient of a constant and a variable
C. the quotient of two terms
D. the sum of four terms
26. Look at the expression.

$$
t(6-4)
$$

Which of the following describes the expression?
A. the product of three constants
B. the difference of a constant and a variable
C. the product of two terms
D. the sum of three terms
27. Which set of operators in the blanks would make the following statement true?

12
$\qquad$ $2 \ldots 3$ $\qquad$
A. $\times,+,-$
B. $\div, \times,+$
C. $\div,+, \times$
D.,$+ \times,-$
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. $M D A S$
B. $A M A D$
C. $M A D S$
D. $A M D S$
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, $\frac{1}{7} \times\left(\frac{1}{8} \times \frac{3}{4}\right)=\left(\frac{1}{7} \times \frac{1}{8}\right) \times \frac{3}{4}$, 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.

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

Which are like terms?
A. $\quad 3 b$ and $\frac{m}{3}$
B. $3 b$ and -3
C. $-3 m$ and $\frac{m}{3}$
D. -3 and $-3 m$
38. Look at the pairs of terms.
A. $-3 x^{2}$
$3 x^{2}$
B. 31.7
C. 6
D. $4 b \quad 3 b$

Which of the pairs are unlike terms?
39. Each evening, Takumi walked around a park.


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: $3 a+6=6+$ ?
41. Complete: $2 c+(3 c-4)=\square-4$
$\square$ $-4$
42. This expression shows a sum:
$4 y+12 w$
Which of the following is an equivalent expression, written as a product?
43. The expression $V(5+4)$ is the same as $\qquad$ $-$
A. 20 V
B. $5 V+4 V$
C. $5 V-4 V$
D. $9 \cdot 2$
44. The expression $3 \times(L+W)$ is the same as $\qquad$ -
A. $3 L W$
B. $3 L+3 W$
C. $\frac{L W}{3}$
D. $L+3 W$

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Unit 4 Review 2/11/2018
1.

Answer: D
Objective: 6.EE. 1
2.

Answer: 243
Objective: 6.EE. 1
3.

Answer: A
Objective: 6.EE. 1
4.

Answer: $\quad 3^{4}$
Objective: 6.EE. 1
5.

Answer: $\quad 2^{2} \times 3 \times 5^{2}$
Objective: 6.EE. 1
6.

Answer: $\quad 2^{2} \times 3^{2}$
Objective: 6.EE. 1
7.

Answer: $\quad 2^{5}$
Objective: 6.EE. 1
8.

Answer: $5^{3}$
Objective: 6.EE. 1
9.

Answer: $\quad 4 \times 4 \times 4 \times 4 \times 4 \times 4 \times 4 \times 4$
Objective: 6.EE. 1
10.

Answer: $\quad 2 \times 2 \times 2 \times 2 \times 2 \times 2$
Objective: 6.EE. 1
11.

Answer: $\quad$ A and C only
Objective: 6.EE.2A
12.

Answer: C
Objective: 6.EE.2A
13.

Answer: $\quad x+1$
Objective: 6.EE.2A
14.

Answer: $\quad 27+y$
Objective: 6.EE.2A
15.

Answer: $\quad \mathrm{n}+57$
Objective: 6.EE.2A
16.

Answer: $\quad 4(n-3)$
Objective: 6.EE.2A
17.

Answer: D
Objective: 6.EE.2A
18.

Answer: $\quad 5(t+u)^{3}$
Objective: 6.EE.2A
19.

Answer: $\quad\left(e^{2}-f\right)+4$
Objective: 6.EE.2A
20.

Answer: B
Objective: 6.EE.2B
21.

Answer: $\quad 8$ and $(r+3)$
Objective: 6.EE.2B
22.

Answer: $\quad 5$ and $(3-2)$
Objective: 6.EE.2B
23.

Answer: B
Objective: 6.EE.2B
24.

Answer: A
Objective: 6.EE.2B
25.

Answer: C
Objective: 6.EE.2B
26.

Answer: C
Objective: 6.EE.2B
27.

Answer: C
Objective: 6.EE.2C
28.

Answer: C
Objective: 6.EE.2C
29.

Answer: 4
Objective: 6.EE.2C
30.

Answer: 6
Objective: 6.EE.2C
31.

Answer: 22
Objective: 6.EE.2C
32.

Answer: 8
Objective: 6.EE.2C
33.

Answer: B
Objective: 6.EE. 3
34.

Answer: A
Objective: 6.EE. 3
35.

Answer: Distributive property
Objective: 6.EE. 3
36.

Answer: A
Objective: 6.EE. 3
37.

Answer: C
Objective: 6.EE. 4
38.

Answer: C
Objective: 6.EE. 4
39.

Answer: A
Objective: 6.EE. 4
40.

Answer: $\quad 3 a$
Objective: 6.EE. 4
41.

Answer: $5 c$
Objective: 6.EE. 4
42.

Answer: $\quad 4(y+3 w)$
Objective:
6.EE. 4
43.

Answer: B
Objective: 6.EE. 4
44.

Answer: B
Objective: 6.EE. 4

