

LEVEL



NUMBER WORLDS[®]

Accelerate Math Success

Assessment

Name _____ Date _____

Unit Pretest

Circle the letter of the correct answer.

1. $10^4 =$
 - A 104
 - B 1,400
 - C 10,100
 - D 10,000
2. Which answer shows a base of 5 and an exponent of 3?
 - A 5^3
 - B 35
 - C 53
 - D 3^5
3. Which answer is the same as $12 + 4^2$?
 - A $12 + 4 \times 2$
 - B $12 + (4 \times 2)$
 - C $12 + (4 \times 4)$
 - D $12 + 4 + 2$
4. $10 \times 5^2 =$
 - A 1,025
 - B 250
 - C 125
 - D 1,250
5. Which answer is the same as $3x + 4$?
 - A the sum of 3, x , and 4
 - B 3 raised to the x power plus 4
 - C the product of 3 and x , plus 4
 - D 3 times x to the fourth power
6. Which answer is the same as 5 times the sum of 2 and y ?
 - A $10y$
 - B $5 + 2 + y$
 - C $10 + y$
 - D $5(2 + y)$
7. What is $n(8 + n)$ when $n = 3$?
 - A 33
 - B 11
 - C 27
 - D 24

Circle the letter of the correct answer.

8. What is $5x + 3$ when $x = 4$?

A 20
B 23
C 35
D 12

9. Which expression is equivalent to $8x - 4 + 2x$?

A $2x$
B $10x - 4$
C $8x - 2$
D $6x - 4$

10. What is $4(x^2 - 3)$ when $x = 2$?

A 4
B 1
C 16
D 13

11. When you evaluate an expression, which of these operations should you do last?

A Multiply and divide from left to right.
B Solve any exponential notation.
C Do the operations in the parentheses.
D Add and subtract from left to right.

12. Which symbol means *product*?

A $-$
B $+$
C \times
D \div

13. Which answer is the same as this statement?

The sum of 15 and x is 23.

A $15 + x = 23$
B $15x = 23$
C $15 + 23 = x$
D $23 + x = 15$

14. Which equation matches this situation?

There are n people at a beach. A group of 7 people leave the beach, and 4 more arrive. There are now 38 people at the beach.

A $7 + 4 = 38 - n$
B $n = 38 - 7 - 4$
C $38 - n = 7 + 4$
D $n - 7 + 4 = 38$

Name _____ Date _____

Circle the letter of the correct answer.

15. If $27 = 35 - x$, what is the value of x ?

A 62
B 8
C 19
D 27

16. If $4(3x + 5) = 92$, what is the value of x ?

A 17
B 32
C 6
D 5

17. A small museum had 18 visitors on Thursday and 15 visitors on Friday. Tickets to the museum cost \$7 each, but 3 of the visitors were admitted free because they were under 12 years old. How much money did the museum earn from tickets on that Thursday and Friday?

A \$330.00
B \$230.00
C \$280.00
D \$210.00

18. 5.2 is between what two consecutive integers?

A 5 and 2
B 5 and 6
C 0 and 10
D 4 and 5

19. Which symbol means “less than or equal to”?

A \leq
B $>$
C $<$
D \geq

20. Which inequality expression matches this situation?

We harvested fewer than 18 ears of corn from our garden.

A $c = 18$
B $c >$
C $c < 18$
D $c \geq 18$

Name _____ Date _____

Unit Posttest

Circle the letter of the correct answer.

1. $10^5 =$

- A 105
- B 1,005
- C 100,000
- D 10,500,000

2. Which answer shows a base of 6 and an exponent of 4?

- A 4^6
- B 6^4
- C 46
- D 64

3. Which answer is the same as $14 + 6^2$?

- A $14 + (6 \times 6)$
- B $14 + (6 \times 2)$
- C $14 + 6 \times 2$
- D $14 + 6 + 2$

4. $10 \times 6^2 =$

- A 1,036
- B 136
- C 1,360
- D 360

5. Which answer is the same as $\frac{30}{x} - 7$?

- A 7 less than 30 divided by x
- B the quotient of 30 less 7 and x
- C x less 7 divided into 30
- D 30 times x divided by 7

6. Which answer is the same as the sum of 5 and x , divided by 7?

- A $\frac{5x}{7}$
- B $5 + \frac{x}{7}$
- C $\frac{5 + x}{7}$
- D $\frac{5}{x + 7}$

7. What is $\frac{24}{x + 9}$ when $x = 3$?

- A 36
- B 12
- C 3
- D 2

Name _____ Date _____

Circle the letter of the correct answer.

8. What is $42 - 4x$ when $x = 9$?
- A 2
B 6
C 27
D 38
9. Which expression is equivalent to $3(5 + x)$?
- A $15 + 3x$
B $35 + x$
C $15 + x$
D $35 + 3x$
10. What is $5(12 - x^2)$ when $x = 3$?
- A 57
B 51
C 3
D 15
11. When you evaluate an expression, which of these operations should you do first?
- A Multiply and divide from left to right.
B Do the operations within the parentheses.
C Solve any exponential notation.
D Add and subtract from left to right.

12. Which symbol means *quotient*?

A $-$
B $+$
C \div
D \times

13. Which answer is the same as this statement?

The number 21 decreased by x is 16.

A $21 = 16 - x$
B $21 - x = 16$
C $21 - 16 = x$
D $x - 21 = 16$

14. Which equation matches this situation?

A truck delivers n boxes of tools to a hardware store, along with 8 extra tools. Each box contains 15 tools. The total number of tools that were delivered is 68.

A $n = 68 + 8$
B $8n = 68$
C $15n = 68$
D $15n + 8 = 68$

Circle the letter of the correct answer.

- 15.** If $41 = x + 7$, what is the value of x ?

A 11
B 37
C 34
D 41

- 16.** If $5(9x - 6) = 15$, what is the value of x ?

A 1
B 5
C 6
D 9

- 17.** A ferry made 6 trips to an island. On each trip to the island, it carried 15 passengers. On each trip back to the mainland, it carried 4 people. The rest of the people stayed at a hotel on the island. How many people stayed at the hotel on the island?

A 66
B 24
C 21
D 90

- 18.** -3.7 is between what two consecutive integers?

A 0 and -10
B -2 and -3
C -4 and -3
D -7 and -3

- 19.** Which symbol means "greater than or equal to"?

A $<$
B \geq
C $>$
D \leq

- 20.** Which inequality expression matches this situation?

More than 45 players tried out for the soccer team.

A $p < 45$
B $p \geq 45$
C $p \leq 45$
D $p > 45$

LEVEL



Assessment

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