

Grade 5 Numerical Expressions Concept review

1. Which expression has a value of 20?

- a. $3 \times (6 + 2)$
- b. $(3 \times 6) + 2$
- c. $3 + (6 \times 2)$
- d. $(3 + 6) \times 2$

2. Ms. Ayesha gave these instructions to her math students.

Add 6 and 12.

Multiply the result by 10.

Which expression has the same final answer as in Ms. Ayesha's instructions?

- a. $(6 \times 12) + 10$
- b. $6 + (12 \times 10)$
- c. $(6 + 12) \times 10$
- d. $6 \times (12 + 10)$

3. What is the correct way to simplify this expression?

$6 \times (12 + 3)$

- a. Add 3 and 12, and then add that sum to 6.
- b. Add 3 and 12, and then multiply that sum by 6.
- c. Multiply 6 by 12, and then add 3 to that product.
- d. Multiply 6 by 12, and then multiply 6 by 3. Then find the difference between these two products.

4. Which number goes in the blank to make the equation true?

$$(11 + 4) + 3 = (\underline{\hspace{1cm}} + 6) + 2$$

- a. 8
- b. 10
- c. 11
- d. 15

5. Meera wrote a problem for homework. The answer to her problem is 33.

Which problem did Meera write?

- a. $3 \times (4 + 5) + 6 =$
- b. $(3 \times 4) + 5 + 1 =$
- c. $2 \times 4 + (5 + 6) =$
- d. $3 \times 4 + 5 + 6 =$

6. Ms. Noora wrote these directions on the board.

Add 6 and 3

Multiply the sum by 9.

Subtract 4 from the product.

Which expression represents Ms. Noora's directions?

- a. $6 + 3 \times 9 - 4$
- b. $6 + (3 \times 9) - 4$
- c. $6 + 3 \times (9 - 4)$
- d. $(6 + 3) \times 9 - 4$

7. How would you describe this pattern's rule?

65, 62, 59, 56, 53, 50

- a. Subtract 2
- b. Subtract 3
- c. Subtract 4
- d. Add 3

8. What are the missing numbers in this pattern?

23, 33, __, 53, __, 73

- a. 32, 62
- b. 42, 63
- c. 43, 63
- d. 42, 62

9. Huda's teacher gave the class a mystery pattern below to solve.

12, 16, 20, 24, __

What is the rule to get to the next number?

- a. Add 6
- b. Add 4
- c. Subtract 2
- d. Add 2

10. Triple the sum of 33 and 27

- a. $(2 \times 33) + 27$
- b. $3 \times (33 + 27)$
- c. $13 \times (33 - 27)$
- d. $3 \times (33 - 27)$

11. Which numeric expression matches this written expression?

add four and nine and then multiply by six

- a. $(6-4) \times 9$
- b. $(4+9) \times 6$
- c. $6 \times 9+4$
- d. $9 \times 4-6$

12. Which numeric expression matches this written expression?

two times the sum of eight and seven

- a. 2×87
- b. $2 + (8 + 7)$
- c. $2 \times 8 + 7$
- d. $2 \times (8 + 7)$

13. Find and explain the error.

$$\begin{array}{r} 5 - 3 + 2 \\ 5 - 5 \\ \hline 0 \end{array}$$

- a. There is no error.
- b. Addition was done first and you should have subtracted first
- c. There is a subtraction error

14. Which operation should be completed first?

$$[10 \times (6-2) \div 5]$$

- a. 10×6
- b. 10×4
- c. $6-2$
- d. $2 \div 5$

15. What would be my first step? $3 + 4 \times 6 - 4 =$

- a. addition
- b. multiplication
- c. subtraction
- d. exponents

16. What does 3^2 mean?

- a. 3×2
- b. 3×3
- c. $2 \times 2 \times 2$