TAHNOON BIN MOHAMMED (2021-2022)

MATH QUIZ (GRADE 6) - TERM 2

CHAPTER 6 - EXPRESSIONS

Write the letter for the correct answer in the blank at the right of each question.

1. The volume of a certain cube can be found using the expression 5^3. What is 5^3 written as a product of the same factor?

A. 5×3 **C.** 3×5

B. $3 \times 3 \times 3 \times 3 \times 3$ **D.** $5 \times 5 \times 5$ **1.** _____

2. What is $8 \times 8 \times 8 \times 8$ written using an exponent?

F. 8^4 **G.** 4^8 **H.** 8×4 **I.** 4,096 **2.** _____

What is the value of each expression?

3. $5^2 + 7$

A. 12 **B.** 32 **C.** 33 **D.** 42 **3.** _____

4. $21 - 3^2 + 2$

F. 14 **G.** 16 **H.** 20 **I.** 24 **4.** _____

5. $58 - 2 \times 3 + 1$

A. 50 **B.** 53 **C.** 169 **D.** 224 **5.** _____

6. $4 \times 3 + 9 \times 8$

F. 59 **G.** 84 **H.** 168 **I.** 384 **6.** _____

7. What is the value of cd if $c = 9$ and $d = 8$?

A. 98 **B.** 89 **C.** 72 **D.** 17 **7.** _____

8. What is the value of $2 + 3n$ if $n = \frac{1}{2}$?

F. $1\frac{1}{2}$ **G.** $3\frac{1}{2}$ **H.** $5\frac{1}{2}$ **I.** 8 **8.** _____

9. What is the value of $s + t - u$ if $s = 12$, $t = 8$, and $u = 20$?

A. 0 **B.** 10 **C.** 15 **D.** 18 **9.** _____

Which is the correct algebraic expression for each phrase?

10. 10 dollars less than Caitlin

F. $c + 10$ **G.** $c - 10$ **H.** $10 - c$ **I.** $10c$ **10.** _____

11. 13 times the cost of one ticket

A. $t \div 13$ **B.** $t - 13$ **C.** $13 + t$ **D.** $13t$ **11.** _____

12. twelve inches longer than the width

F. $12w$ **G.** $12 - w$ **H.** $w + 12$ **I.** $12 \div w$ **12.** _____

LIVEWORKSHEETS

TAHNOON BIN MOHAMMED (2021-2022)

MATH QUIZ (GRADE 6) - TERM 2

CHAPTER 6 - EXPRESSIONS

13. Which property is illustrated by the statement $3 + 0 = 3$?

A. Associative **C.** Distributive

B. Commutative **D.** Identity **13.** _____

14. Which property is illustrated by the statement $6 \cdot 4 = 4 \cdot 6$?

F. Associative **H.** Distributive

G. Commutative **I.** Identity **14.** _____

15. Which of the following is equivalent to $2 \cdot (4 \cdot 3)$?

A. $2 + (4 + 3)$ **B.** $2 \cdot (6 \cdot 4)$ **C.** $(2 \cdot 4) \cdot 3$ **D.** 8 **15.** _____

16. Which of the following is the factored form of the expression $18 + 12$?

F. $2(9 + 6)$ **G.** $3(6 + 4)$ **H.** $6(3 + 2)$ **I.** $9(2 + 3)$ **16.** _____

17. Which shows how to find 5×83 mentally by using the Distributive Property?

A. $3(5 + 80)$ **B.** $5(80) + 3$ **C.** $3(80) + 5(3)$ **D.** $5(80) + 5(3)$ **17.** _____

Which expression results from using the Distributive Property?

18. $6(x + 4)$

F. $6x + 10$ **G.** $6x + 4$ **H.** $24x$ **I.** $6x + 24$ **18.** _____

19. $2(5 + r)$

A. $7 + r$ **B.** $10 + 2r$ **C.** $12r$ **D.** $7 + 2r$ **19.** _____

20. $11(n + 3)$

F. $14n$ **G.** $n + 33$ **H.** $33n$ **I.** $11n + 33$ **20.** _____

What is the simplified form of each expression?

21. $2x + 5x + 4x$

A. $11 + 3x$ **B.** $7x$ **C.** $11x$ **D.** $7x + 4x$ **21.** _____

22. $5(4x)$

F. $9x$ **G.** $5(4) + 5(x)$ **H.** $9 + x$ **I.** $20x$ **22.** _____

23. $7(2x + 6y)$

A. $14x + 42y$ **B.** $56x$ **C.** $56xy$ **D.** $14x + 42$ **23.** _____

What is the factored form of each expression?

24. $20x + 35y$

F. $4x + 7y$ **G.** $5xy(4 + 7)$ **H.** $5(4x + 7y)$ **I.** $(20 + 35) \cdot (x + y)$ **24.** _____

25. $24x + 64y$

A. $4(6x + 16y)$ **B.** $8(3x + 8y)$ **C.** $8xy(3 + 8)$ **D.** $3x + 8y$ **25.** _____

LIVEWORKSHEETS