

Student: _____
Date: _____
Time: _____

Instructor: courtney trabue
Course: GMC LSS Mathematics
Book: Martin-Gay: Developmental
Mathematics

Assignment: MAT 097 Exponents, Order
of Ops & Var Exps (82)

1. Evaluate the following expression and enter it in numerical form.

$$5^2$$

$$5^2 = \square$$

2. Evaluate the following expression and enter it in numerical form.

$$3^3$$

$$3^3 = \square$$

3. Evaluate the following expression.

$$\left(\frac{4}{7}\right)^2$$

$$\left(\frac{4}{7}\right)^2 = \square \text{ (Type an integer or a fraction. Simplify your answer.)}$$

4. Evaluate.

$$(1.6)^2$$

$$(1.6)^2 = \square \text{ (Round to the nearest hundredth as needed.)}$$

5. Simplify the given expression and enter in numerical form.

$$6 + 3 \cdot 4$$

$$6 + 3 \cdot 4 = \square$$

6. Simplify the given expression.

$$7 + (5 - 4) + 6^2$$

$$7 + (5 - 4) + 6^2 = \square$$

7. Simplify the given expression.

$$7 \cdot 8^3$$

$$7 \cdot 8^3 = \square$$

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8. Simplify the given expression.

$$\frac{1}{8} \cdot \frac{8}{3} - \frac{1}{3}$$

$$\frac{1}{8} \cdot \frac{8}{3} - \frac{1}{3} = \square \text{ (Type an integer or a fraction. Simplify your answer.)}$$

9. Simplify the given expression and enter the answer in numerical terms.

$$6[4 + 4(6 - 5)]$$

$$6[4 + 4(6 - 5)] = \square$$

10. Simplify the given expression and enter your answer in numerical terms.

$$\frac{5 + 5(4 + 1)}{5^3 + 8}$$

$$\frac{5 + 5(4 + 1)}{5^3 + 8} = \square \text{ (Type an integer or a fraction. Simplify your answer.)}$$

11. Simplify the given expression and enter your answer in numerical terms.

$$\frac{6 + |9 - 5| + 1^2}{8 - 1}$$

$$\frac{6 + |9 - 5| + 1^2}{8 - 1} = \square \text{ (Type an integer or a fraction. Simplify your answer.)}$$

12. Evaluate the expression when $y = 5$.

$$3y$$

$$3y = \square$$

13. Evaluate the following expression when $x = 4$, $y = 1$, and $z = 5$.

$$\frac{z}{4x}$$

$$\text{The answer is } \square \text{ (Type an integer or a fraction. Simplify your answer.)}$$

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14. Evaluate the following expression when $x=1$, $y=3$, and $z=2$.

$$|5x+3y|$$

The answer is .

15. Evaluate the expression when $x=2$, $y=1$, and $z=5$.

$$4y^2$$

$$4y^2 = \text{}$$

16. Evaluate the expression when $z=3$.

$$7z$$

$$7z = \text{}$$

17. Evaluate the expression when $x=1$ and $y=2$.

$$\frac{6}{y} + \frac{2y}{x}$$

$$\frac{6}{y} + \frac{2y}{x} = \text{}$$

18. Determine if the given number is a solution or is not a solution of the given equation.

Is 1 a solution of the equation $3x + 7 = 2x$?

Yes

No

19. Decide whether the given number is a solution of the given equation.

$$2x+8=7x-5; 3$$

Is 3 a solution to $2x+8=7x-5$.

Yes

No

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20. Is 5 a solution to the equation $x+6 = x+6$?

- Yes
 No

21. Enter the following phrase as an algebraic expression. Let x represent the unknown number.

Five subtracted from a number

The algebraic expression is .

22. Enter the following phrase as an algebraic expression. Let x represent the unknown number.

Two times a number, increased by 17

The algebraic expression is .

23. Enter the given sentence as an equation.

One increased by one equals the quotient of six and three.

The equation is .

24. Enter the following sentence as an equation.

Nine is not equal to six divided by two.

The inequality is .

25. Enter the given sentence as an equation. Use x to represent any unknown number.

Twenty-four minus four times a number is 24.

The equation is .