

MA050 Final Exam Review

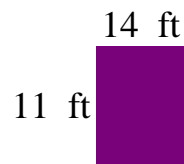
1. Round the following whole number to the nearest hundred.

10,762

2. Find the difference:

$$\begin{array}{r} 7,898,064 \\ - 3,950,960 \\ \hline \end{array}$$

3. Find the perimeter of the rectangle:



4. Find the quotient and remainder (if any). If the quotient is undefined, state "Undefined".

$$17 \overline{)137}$$

5. Find the product:

$$\begin{array}{r} 46 \\ \times 38 \\ \hline \end{array}$$

6. Find the **difference** between the **product** of 40 and 35 and the **sum** of 85 and 139.

7. Solve

$$11 = v - 2$$

8. Solve

$$45 = 5x$$

9. Evaluate the following expression.

$$7 - (3)^2 \div (5 + 4) \cdot 3$$

10. Evaluate the following expression.

$$9 - [3 + (2 \cdot 4 - 4)] \div 1$$

11. Evaluate the following expression.

$$6^2$$

12. Evaluate the given polynomial at  $x = 2$ .

$$4x^2 + 4x$$

**13.** Insert the symbol in the blank that will make the statement true  $<$ ,  $>$ , **or**  $=$

$$|11| \text{ _____ } - |2|$$

**14.** Find the following sum:

$$-14 + 12$$

**15.** Perform the indicated operations.

$$-68 + 80 - 94$$

16. Evaluate the following expression:

$$2 - 8 \div 2 \cdot 6$$

17. Find the following product.

$$(-2) \cdot (-13)$$

18. Find the following quotient.

$$\frac{-54}{3}$$

19. Find the following quotient.

$$\frac{27}{0}$$

20. Your bank statement indicates that you are overdrawn on your checking account by \$60. How much must you deposit to bring the checking account balance up to \$400?

21. Simplify the following algebraic expression by combining the like (or similar) terms.

$$-8b - 8y - 4b + 7y$$

22. Find the prime factorization

$$210$$

23. Find the LCM of the given set of counting numbers.

$$3, 4, 15$$

24. Find the product in lowest terms.

$$\frac{-3xy^2}{-3y^2} \cdot \frac{3x^2y}{2y^2} \cdot \frac{1}{x}$$

25. Divide the following and reduce the answer to its simplest terms.

$$\frac{4}{3} \div \frac{7}{11}$$

26. Divide the following and reduce the answer to its simplest terms.

$$\frac{7x}{58y} \div \frac{-53x}{24y}$$

27. Find the following sum and difference and simplify your answer.

$$\frac{2}{9} + \frac{1}{6} - \frac{3}{8}$$

28. Change the following improper fraction to a mixed number with the fraction part reduced to the lowest terms.

$$\frac{15}{6}$$

29. Find the product and write your answer in mixed number form. Reduce if possible.

$$\left(4\frac{5}{6}\right) \cdot \left(9\frac{7}{10}\right)$$



**30.** Solve

$$7w - 4 = 8w + 4$$

**31.** Solve

$$\frac{1}{6}w = \frac{-2}{7}$$

**32.** Round the decimal number to the nearest hundredth.

8.66250

33. Find the sum.

$$162.7 + 72.24 + 102.332$$

34. Find the quotient.

$$9.79 \div 100$$

35. Change the fraction to decimal form rounded to the nearest thousandth if necessary.

$$\frac{41}{66}$$

36. Solve the following equation. Write your answer in decimal form.

$$65.6z + 5 = 21.4$$

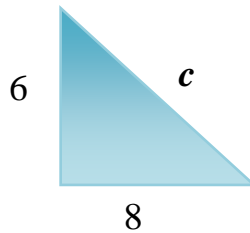
37. Find the value of the indicated square root.

$$\sqrt{36}$$

38. Let  $a$  and  $b$  be the lengths of the legs of a right triangle. Using the Pythagorean Theorem, find the length of the hypotenuse rounded to three decimal places if necessary.

$$a = 6, b = 8$$

Answer:



39. Change the decimal to a percent.

$$0.106$$

40. Find the unknown quantity problem using the formula  $R \cdot B = A$   
Round your answer to two decimal places.

$$33\% \text{ of } 721 \text{ is } \underline{\quad}.$$