

MATH 90, SECTION 1069  
PRACTICE TEST 1

1: Evaluate this expression:  $\frac{2x+y}{7}$  for  $x = 15$  and  $y = 20$

2: Divide  $\frac{7}{6} \div \frac{2}{3}$

3:  $x + 5 = 5 + x$  is an example of which algebraic law? Underline the correct answer.

a) Commutative; (b) Associative or (c) Distributive

4: Apply the Distributive property:  $5(x + 2y + 4)$

5: Simplify:  $\frac{12}{18}$

6: Find the prime factorization of 52.

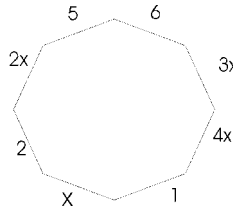
7: Perform the indicated operation:  $\frac{13}{12} - \frac{2}{3}$

8: Write a true sentence using  $>$  or  $<$ .  $-5 \square -9$

9: Simplify the following expression:  $|-34| =$

10: Add these terms:  $-24 + (-17)$

11: Find the perimeter of the figure below.



12: Find  $-x$  if  $x = -23$

13: Perform the indicated operation  $25 - (-12) - 7 - (-2) + 9$

14: Multiply  $-5 \cdot (-6)$

15: Divide if possible. If you cannot divide, explain why.  $\frac{28}{0}$

16: Perform the indicated operation:  $19 - 5 \cdot 3 + 5$

17: Evaluate  $45 \div 3 \cdot a$ , for  $a = -4$

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18: Solve this equation for y:  $12 = -5 + y$

19: Solve this equation for x:  $7x = -42$

20: Solve for x:  $4x + 3x = 10$

21: Solve for x:  $\frac{2}{3} + \frac{1}{4}x = 6$

22. What is the reciprocal of 9?

23. Gather like terms  $2x + 7x - (4x + 6)$

24. Identify the rational number in the following set:  $\pi, \sqrt{3}, \frac{2}{3}$

25. Solve this equation  $\frac{2}{3} + 4x = 6x - \frac{2}{15}$

26. List these operations in the proper order: Exponent, Add, Multiply, Parenthesis

27: Multiply  $-\frac{3}{8} \cdot \left(-\frac{2}{9}\right)$

28: Evaluate  $45 \div 3^2 x(x-1)$ , for  $x = 3$

29: Solve this equation for x:  $\frac{4}{5}x = 16$

30: Solve for x:  $-\frac{3x}{4} - 5 = 2$

31: Evaluate  $5 \cdot 3^2 - 4^2 \cdot 2$

32: Evaluate  $\frac{7^2 - (-1)^5}{3 - 2 \cdot 3^2 + 5}$

33: Divide  $-100 \div (-50)$

34: Divide  $-\frac{0}{8}$

35: What is the additive inverse of 39