



## MATH 085 Sample 01 Exam 1

For each problem, show your work in the space provided.  
Write your Final Answer (and the letter answer) on the Answer Sheet provided.

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5. Divide:  $\frac{5}{7} \div \frac{35}{5}$

6. Find the least common multiple of 10, 14, and 448.

[A] 1120

[B] 70

[C] 2240

[D] 1680

7. Find:  $\frac{1}{5} - 5\left(\frac{1}{2} + 7\right)$       [A]  $9\frac{3}{10}$       [B]  $-37\frac{3}{10}$       [C]  $37\frac{3}{10}$       [D]  $-9\frac{3}{10}$

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8. Find the additive inverse (opposite) of  $\frac{1}{4}$ .

[A] 4

[B] -4

[C]  $\left|\frac{1}{4}\right|$

[D]  $-\frac{1}{4}$

9. Divide:  $\frac{3}{5} \div \left(-\frac{2}{10}\right)$

10. Which of the following expressions represents "Ethel's age 15 years from now"?

[A]  $15 - x$

[B]  $15x$

[C]  $x + 15$

[D]  $x - 15$

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11. Jennica's neighborhood has a community garden. Jennica knows the width of the garden is 18 ft and the area is  $648 \text{ ft}^2$ . How many feet of fencing will she need to enclose the garden?

12. The width of a rectangle is 12 centimeters. Find all possible values for the length of the rectangle if the perimeter is at least 656 centimeters.

[A]  $x \geq 644 \text{ cm}$       [B]  $x \geq 316 \text{ cm}$       [C]  $x \geq 54.67 \text{ cm}$       [D]  $x \geq 152 \text{ cm}$

13. Solve:  $3x - 5 = x + 5$       [A]  $-\frac{1}{5}$       [B]  $-5$       [C]  $5$       [D]  $\frac{1}{5}$

14. Multiply:  $3(4x + 2)$

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15. Solve:  $6x > 24$

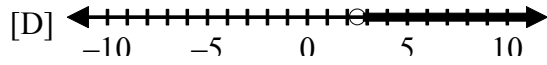
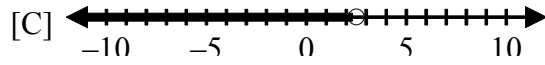
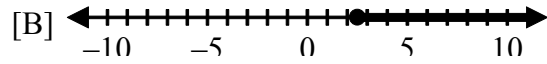
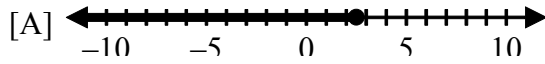
[A] none of these

[B]  $\{x|x > 18\}$

[C]  $\{x|x > 2\}$

[D]  $\{x|x < 2\}$

16. Graph:  $5x + 4 < 3(x + 3)$



17. Solve:  $\frac{x}{6} + \frac{3x}{5} = 23$

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18. Simplify:  $(-5y) + (-4) + x + 9y - (-2x)$

19. Solve:  $-15 \leq -3x + 15 \leq 9$

[A]  $10 \leq x \leq 2$       [B]  $24 \leq x \leq 0$       [C]  $2 \leq x \leq 10$       [D]  $0 \leq x \leq 24$

20. When the product of 9 and an unknown number is decreased by 6, the result is 18. Find the number.

21. Solve:  $12 = 4(x - 2)$       [A] 5      [B] -3      [C] 3      [D] 1

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22. Evaluate  $\frac{y}{5x} - z$  for  $x = 4$ ,  $y = 120$ , and  $z = 1$ .

23. In which quadrant does the point  $(9, -3)$  lie?

- [A] quadrant I      [B] quadrant IV      [C] quadrant III      [D] quadrant II

24. Name the quadrant or axis containing the point  $(4, -3)$ .

25. Give the ratio of rise to run for the line that contains points  $(-5, -1)$  and  $(-5, -5)$ .

- [A]  $\frac{2}{5}$       [B]  $-\frac{2}{3}$       [C] 0      [D] undefined

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[1] \_\_\_\_\_

[2] \_\_\_\_\_

[3] \_\_\_\_\_

[4] \_\_\_\_\_

[5] \_\_\_\_\_

[6] \_\_\_\_\_

[7] \_\_\_\_\_

[8] \_\_\_\_\_

[9] \_\_\_\_\_

[10] \_\_\_\_\_

[11] \_\_\_\_\_

[12] \_\_\_\_\_

[13] \_\_\_\_\_

[14] \_\_\_\_\_

[15] \_\_\_\_\_



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[16] \_\_\_\_\_

[17] \_\_\_\_\_

[18] \_\_\_\_\_

[19] \_\_\_\_\_

[20] \_\_\_\_\_

[21] \_\_\_\_\_

[22] \_\_\_\_\_

[23] \_\_\_\_\_

[24] \_\_\_\_\_

[25] \_\_\_\_\_

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[1] 8 \_\_\_\_\_

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[2] Commutative Property for Multiplication

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[3] -3 \_\_\_\_\_

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[4]  $3\frac{13}{36}$  \_\_\_\_\_

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[5]  $\frac{5}{49}$  \_\_\_\_\_

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[6] [C]

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[7] [B]

---

[8] [D]

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[9] -3 \_\_\_\_\_

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[10] [C]

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[11] 108 ft

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[12] [B]

---

[13] [C]

---

[14]  $12x + 6$

---

[15] [A]

---

[16] [C]

---

[17] 30

---

[18]  $3x + 4y - 4$

---

[19] [C]

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[20]  $2\frac{2}{3}$

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[21] [A] \_\_\_\_\_

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[22] 5 \_\_\_\_\_

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[23] [B] \_\_\_\_\_

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[24] quadrant IV \_\_\_\_\_

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[25] [D] \_\_\_\_\_