

MATH 085 Sample 02 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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1. Find the additive inverse (opposite) of $\frac{2}{9}$.

[A] $-\frac{2}{9}$

[B] $\left|\frac{2}{9}\right|$

[C] $-\frac{9}{2}$

[D] $\frac{9}{2}$

Simplify:

2. $36 \div 6 \cdot 6 + 5 - 4$

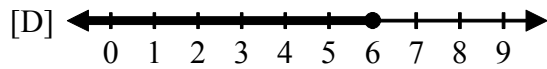
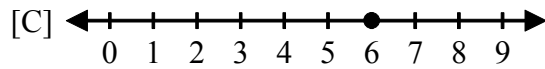
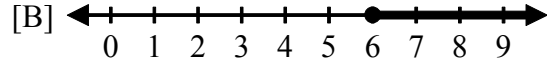
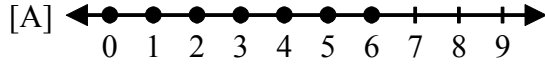
3. $-(-8) - 2(8 - 3)$

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4. Which number line represents the graph of 6?



5. Find the additive inverse of 6.5.

6. Write 900 as a product of primes.

[A] $4 \times 3^2 \times 5^2$ [B] $2 \times 3^2 \times 5^2$ [C] $2^2 \times 3^2 \times 5^2$ [D] $2 \times 3 \times 5$

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7. Subtract: $(-8) - (-9)$

8. Insert =, <, or > to make a true statement: $-\frac{12}{13} \text{ — } -\frac{1}{3}$.

[A] >

[B] =

[C] <

[D] none of these

9. Find: $\frac{2}{7} - 3\left(\frac{1}{2} + 4\right)$ [A] $-5\frac{3}{14}$ [B] $-13\frac{3}{14}$ [C] $13\frac{3}{14}$ [D] $5\frac{3}{14}$

10. Multiply: $-7(x + 2)$

[A] $-7x - 14$

[B] $-7x + 2$

[C] $-7x + 14$

[D] $-7x - 2$

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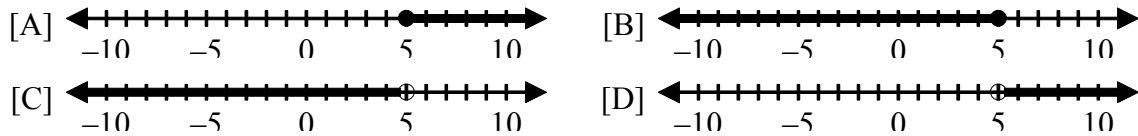
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11. Write an expression to represent "the product of a number and 24."

12. Solve: $7 = 4(x + 9) - 3x$ [A] -29 [B] -2 [C] 29 [D] 2

13. Graph: $x \geq 5$



14. Solve: $9x - 6 = 75$ [A] 8 [B] 9 [C] 69 [D] 18

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15. Write an expression to represent the following:
“ q subtracted from the product of 2 and r ”

[A] $2r - q$ [B] $q - 2r$ [C] $(q - 2)r$ [D] $2(r - q)$

16. Is $-\frac{10}{3}$ a solution of the equation $3x - 7 = 3$?

Simplify:

17. $5x + 4y - 7x - 7y$

[A] $-2x - 3y$ [B] $12x - 3y$ [C] $-2x + 11y$ [D] $12x + 11y$

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Simplify:

18. $x + 3(x - 4) + (x - 2)$

Solve:

19. $\frac{1}{14} + s = \frac{3}{14}$

20. $3x - 5 = x - 4$ [A] $\frac{1}{2}$ [B] $-\frac{1}{2}$ [C] -2 [D] 2

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Solve:

21. $-3(x-4) > -4-3x$

- [A] $x < 0$ [B] $x > 0$ [C] all real numbers [D] no solution

22. Evaluate $\frac{y}{2x} - z$ for $x = 3$, $y = 24$, and $z = 2$.

- [A] 6 [B] 2 [C] -4 [D] -10

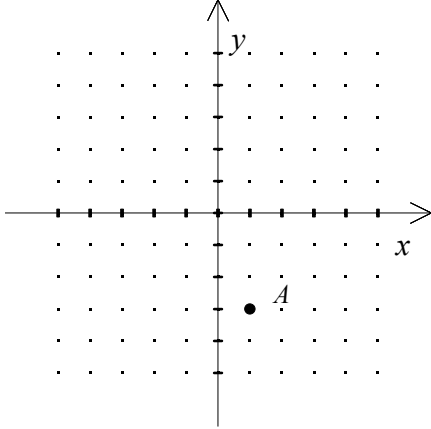
23. Name the quadrant or axis containing the point (2, 4).

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24. What are the coordinates of point A ?



[A] (1, 3)

[B] (1, -3)

[C] (-3, 1)

[D] (-1, -3)

25. A ski-lift that runs to the top of a hill has a rise to run ratio of $\frac{1}{3}$. The horizontal distance from the bottom of the lift to the center of the mountain is 4000 ft. How high is the hill?

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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] [A]

[2] 37

[3] -2

[4] [C]

[5] -6.5

[6] [C]

[7] 1

[8] [C]

[9] [B]

[10] [A]

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[11] $x \cdot 24$ _____

[12] [A] _____

[13] [A] _____

[14] [B] _____

[15] [A] _____

[16] No _____

[17] [A] _____

[18] $5x - 14$ _____

[19] $\frac{2}{14}$ _____

[20] [A] _____

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[21] [C] _____

[22] [B] _____

[23] quadrant I _____

[24] [B] _____

[25] 1333.3 ft. _____