MATH 085 Sample 03 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. Subtract: $3 - 11$ [A] -8 [B] -14 [C] 14 [D] 8

2. What property is illustrated by the fact that $79(44 + 65) = 79 \cdot 44 + 79 \cdot 65$?

3. Multiply: $-8 \cdot (-72)$

4. Simplify: $-(-3) - 6(4 - 3)$ [A] -9 [B] -30 [C] -3 [D] -18

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5. Multiply: $\frac{8}{3} \cdot \left(-\frac{3}{7}\right)$ [A] $-\frac{56}{9}$ [B] $\frac{5}{21}$ [C] $\frac{8}{7}$ [D] $-\frac{8}{7}$

6. Simplify: $9 \div 3 \cdot 3 + 5 - 4$

7. Find the greatest common factor of 110, 260, and 310.

Divide:

8. $\frac{2}{7} \div \frac{14}{3}$

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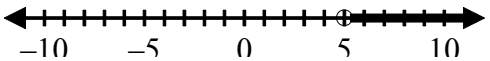
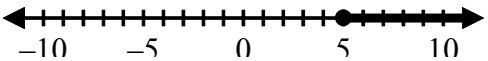
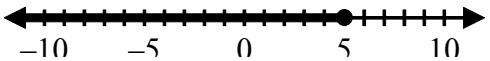
Divide:

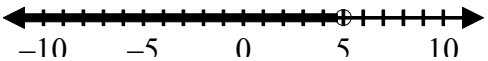
9. $\frac{1}{7} \div \left(-\frac{4}{21}\right)$

10. Graph: $x < 5$

[A] 

[B] 

[C] 

[D] 

11. Solve for A in $B = \frac{5}{8}(A - 8)$.

[A] $\frac{8B + 64}{5}$ [B] $\frac{8B + 40}{5}$ [C] $\frac{8B + 59}{8}$ [D] $\frac{8B + 35}{8}$

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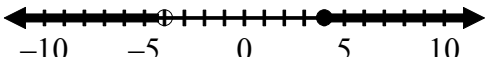
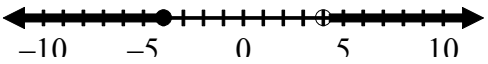
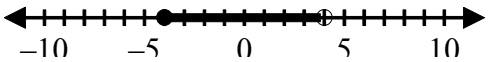
12. The width of a rectangle is 27 centimeters. Find all possible values for the length of the rectangle if the perimeter is at least 744 centimeters.

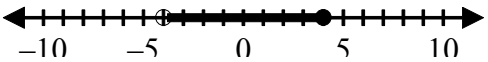
[A] $x \geq 717$ cm [B] $x \geq 27.56$ cm [C] $x \geq 159$ cm [D] $x \geq 345$ cm

13. Graph: $-4 \leq x < 4$

[A] 

[B] 

[C] 

[D] 

14. Evaluate $x \cdot y$ if $x = -6$ and $y = -3$.

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15. Jonathan's neighborhood has a community garden. Jonathan knows the width of the garden is 18 ft and the area is $666\ \text{ft}^2$. How many feet of fencing will he need to enclose the garden?

16. Solve: $7(x+8) = 59+7x$

17. Evaluate $(x+y)$ if $x=-4$ and $y=9$. [A] 13 [B] 5 [C] –5 [D] –13

18. Is $\frac{3}{2}$ a solution of the equation $2x-4 = -1$?

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19. Which of the following algebraic expressions has no like terms?

[A] $-6x+3x-3$ [B] $-3y+2y-6$ [C] $-6-3x+\frac{1}{5}$ [D] $-6x-3y+6$

20. Simplify by adding like terms: $4x-2y+7x+5y$

21. Determine if $-4x$ and 5 are like terms. Answer yes or no.

22. Solve: $4x+8=x-2$ [A] $-\frac{3}{10}$ [B] $\frac{10}{3}$ [C] $\frac{3}{10}$ [D] $-\frac{10}{3}$

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23. A ski-lift that runs to the top of a hill has a rise to run ratio of $\frac{1}{5}$. The horizontal distance from the bottom of the lift to the center of the mountain is 8000 ft. How high is the hill?

24. Give the ratio of rise to run for the line that contains points (–9, 3) and $(-9, -9)$.

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

25. In which quadrant does the point (9, –2) lie?

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

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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]

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[2] Distributive Property

---

[3] 576

---

[4] [C]

---

[5] [D]

---

[6] 10

---

[7] 10

---

[8] $\frac{3}{49}$

---

[9] $-\frac{3}{4}$

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[10] [D]

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[11] [B]

---

[12] [D]

---

[13] [C]

---

[14] 18

---

[15] 110 ft

---

[16] No solution

---

[17] [B]

---

[18] Yes

---

[19] [D]

---

[20] $11x + 3y$

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[21] no

---

[22] [D]

---

[23] 1600 ft.

---

[24] [D]

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[25] [B]