MATH 075 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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1. Which number is divisible by 5 and by 4?

    [A] 260   [B] 1295   [C] 1044   [D] 1305

2. Which of the following is a true statement?

    [A] $384 > 858$ [B] $852 < 559$ [C] $129 < 775$ [D] $717 > 730$

3. Simplify: $10 \div 5 + \{4 \cdot 6 - [2 + (4 + 1)]\}$

    [A] 33   [B] 21   [C] 1   [D] 19

4. Which of the following will make the statement true?
    $24 > \underline{\qquad}$

    [A] 21   [B] 26   [C] 24   [D] none of these answers

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5. Solve: $x - 6 = 17$ [A] 11   [B] 18   [C] 17   [D] 23

6. Find the product of 648 and 407.
    [A] 263,329   [B] 30,456   [C] 2,596,536   [D] 263,736

7. Subtract: $16.4 - 0.708 - 3.26$
    [A] 6.06   [B] 2.432   [C] 12.432   [D] 12.342

8. Divide: $\dfrac{4}{3} \div \dfrac{12}{5}$

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9. Multiply: $\dfrac{1}{8} \times 5\dfrac{1}{6}$

10. Find the greatest common factor of 380, 1240, and 140.

 [A] 40 [B] 20 [C] 7 [D] 60

11. Multiply: 0.065×1000 [A] 65 [B] 650 [C] 6.5 [D] 0.65

12. Which number is larger? 1.09 or 1.096

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13. Frank has three sacks of peanuts. One of the sacks contains 3 pounds, one contains $\frac{1}{6}$ pounds, and one contains $5\frac{2}{3}$ pounds. How many pounds of peanuts does Frank have in all?

14. Find the greatest common factor of 12 and 2.

15. Round 2.327 meters to the nearest tenth of a meter.

  [A] 2.3 m   [B] 2.4 m   [C] 2.33 m   [D] 2.34 m

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16. Write $8\frac{2}{5}$ as an improper fraction.

17. Write $3\frac{5}{8}$ as an improper fraction.   [A] $\frac{29}{8}$ [B] $\frac{8}{29}$ [C] $\frac{8}{35}$ [D] $\frac{35}{8}$

18. Classify the fraction as proper or improper: $\frac{5}{4}$

19. 18 is 30% of what number?   [A] 60   [B] 5.4   [C] 0.6   [D] 167

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20. Write 78% as a decimal.

21. Write $9\frac{3}{8}\%$ as a decimal.

22. Write $62\frac{1}{2}\%$ as a reduced fraction.

23. Approximate each unit price to decide which is the better buy:
     $7.64 for 4 cans of salsa or $24.96 for 13 cans of salsa

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24. Write as a proportion: 5 is to 6 as 20 is to x.

[A] $x = 24$ [B] $\dfrac{6}{5} = \dfrac{20}{x}$ [C] $\dfrac{x}{5} = \dfrac{6}{20}$ [D] $\dfrac{5}{6} = \dfrac{20}{x}$

Simplify:

25. $(40 + 2 \cdot 10 \div 2 - 30) \div 4$ [A] 7   [B] 60   [C] 5   [D] 396

26. $\left| -23 \right|$

27. $4(-3 + 2)$ [A] –4   [B] 14   [C] –10   [D] 4

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28. Add: $(-6) + 8 + (-5)$

Multiply:

29. $(-4.3)(3.4)$

30. $(-3.5)(5.3)$ [A] -18.55 [B] 18.55 [C] -185.5 [D] 185.5

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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] _____

[26] _____

[27] _____

[28] _____

[29] _____

[30] _____

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[1] [A]_____

[2] [C]_____

[3] [D]_____

[4] [A]_____

[5] [D]_____

[6] [D]_____

[7] [C]_____

[8] $\dfrac{5}{9}$_____

[9] $\dfrac{31}{48}$_____

[10] [B]_____

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[11] [A]_____

[12] 1.096 is larger._____

[13] $8\dfrac{5}{6}$ lb _____

[14] 2 _____

[15] [A]_____

[16] $\dfrac{42}{5}$ _____

[17] [A]_____

[18] improper _____

[19] [A]_____

[20] 0.78 _____

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[21] 0.09375

[22] $\dfrac{5}{8}$

[23] $7.64 for 4 cans of salsa

[24] [D]

[25] [C]

[26] 23

[27] [A]

[28] −3

[29] −14.62

[30] [A]