MATH 075 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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Simplify:

1. 4^3

2. $(5 + 9x) + 7$ [A] $9x + 12$ [B] $14x + 7$ [C] $35 + 63x$ [D] $5 + 9x + 7$

3. $8 \div 4 + \{5 \cdot 7 - [2 + (5 + 1)]\}$ [A] 30   [B] 45   [C] 31   [D] 29

4. Divide: $8\overline{)5624}$

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5. Evaluate: $880 - 199 - 74$ [A] 707   [B] 755   [C] 617   [D] 607

6. Maria makes loan payments of $320 each month for 12 months. What is the total amount of money paid?

7. Add: $\dfrac{3}{7} + \dfrac{5}{14}$ [A] $\dfrac{4}{49}$ [B] $1\dfrac{3}{11}$ [C] $\dfrac{11}{14}$ [D] $\dfrac{8}{21}$

8. List the fractions in order from greatest to least.
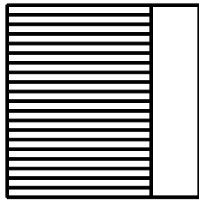 $\dfrac{14}{51}, \dfrac{29}{33}, \dfrac{11}{45},$ and $\dfrac{9}{50}$

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9. Solve: $x + 3.2 = 6.8$ [A] 2.6   [B] 21.76   [C] 10   [D] 3.6

10. Write a decimal to estimate the amount of area shaded.

       [A] 0.5   [B] 7.5   [C] 0.25   [D] 0.75

11. Add: 28.32 + 34.14

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12. Which of the following is a proper fraction?

   [A] $\dfrac{9}{9}$ [B] $\dfrac{7}{10}$ [C] $\dfrac{10}{7}$ [D] $\dfrac{18}{14}$

13. Multiply: $\dfrac{1}{6} \times 5\dfrac{1}{4}$

14. Add: $\dfrac{2}{7} + \dfrac{1}{7}$ [A] $\dfrac{3}{14}$ [B] $\dfrac{3}{7}$ [C] $\dfrac{2}{49}$ [D] $\dfrac{7}{3}$

15. Find the least common multiple of 14, 26, and 208.

   [A] 1456   [B] 182   [C] 728   [D] 2912

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Subtract:

16. $8\dfrac{6}{7} - 4\dfrac{4}{7}$

17. $5\dfrac{1}{6} - 1\dfrac{6}{7}$ [A] $3\dfrac{13}{42}$ [B] $4\dfrac{1}{6}$ [C] 3 [D] $4\dfrac{5}{42}$

18. Multiply: $2\dfrac{1}{2} \times 4\dfrac{3}{8}$ [A] $2\dfrac{15}{16}$ [B] $8\dfrac{3}{16}$ [C] $10\dfrac{15}{16}$ [D] $\dfrac{3}{16}$

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19. Approximate each unit price to decide which is the better buy:
$8.13 for 3 bars of soap or $32.40 for 12 bars of soap

20. A store buys blouses for $23 each and marks them up by 66% for retail sale. What is the retail price of each of the blouses?

21. Write $6\dfrac{1}{4}\%$ as a decimal.   [A] 0.625   [B] 6.25   [C] 0.0625   [D] 625

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22. Write the following phrase as a rate in lowest terms.

    99 treats for 36 children

    [A] $\dfrac{4 \text{ treats}}{11 \text{ children}}$ [B] $\dfrac{11 \text{ treats}}{4 \text{ children}}$ [C] $\dfrac{22 \text{ children}}{8 \text{ treats}}$ [D] $\dfrac{99 \text{ children}}{36 \text{ treats}}$

23. Write 63% as a reduced fraction.   [A] 6300   [B] $\dfrac{63}{10}$ [C] 630   [D] $\dfrac{63}{100}$

24. 24 is 60% of what number?   [A] 250   [B] 0.4   [C] 40   [D] 14.4

25. Simplify: $(45 + 2 \cdot 54 \div 2 - 72) \div 3$ [A] 447   [B] 2471   [C] 11   [D] 9

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26. Add: $(-3) + 5 + (-3)$ [A] 1   [B] 11   [C] -1 [D] -5

27. Multiply: $(-1.2)(1.4)$ [A] 1.68   [B] -16.8 [C] -1.68 [D] 16.8

Simplify:

28. $7x + 2(x - 4)$ [A] $5x - 8$ [B] $9x - 8$ [C] $9x - 4$ [D] $9x + 8$

29. $5 + 2(6 + 7)^2$

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30.   Multiply: $-4 \cdot (-62)$

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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] 64 _____

[2] [A] _____

[3] [D] _____

[4] 703 _____

[5] [D] _____

[6] $3840 _____

[7] [C] _____

[8] $\dfrac{29}{33}, \dfrac{14}{51}, \dfrac{11}{45}, \dfrac{9}{50}$ _____

[9] [D] _____

[10] [D] _____

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[11] 62.46 _____

[12] [B] _____

[13] $\dfrac{7}{8}$ _____

[14] [B] _____

[15] [A] _____

[16] $4\dfrac{2}{7}$ _____

[17] [A] _____

[18] [C] _____

[19] $32.40 for 12 bars of soap _____

[20] $38.18 _____

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[21] [C] _____

[22] [B] _____

[23] [D] _____

[24] [C] _____

[25] [D] _____

[26] [C] _____

[27] [C] _____

[28] [B] _____

[29] 343 _____

[30] 248 _____