MATH 165 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. Solve: $-x = -24$

Divide:

2. $-\left(\dfrac{12}{-3}\right)$

3. $4530 \div 5$ [A] 896   [B] 960   [C] 906   [D] 96

4. Round 46,152,734 to the ten thousands place.

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5. Simplify: $4 + 3\left(3 + 7\right)^{3}$

6. Subtract: $-21 - (-3)$

7. Simplify: $8 \div 4 + \{5 \cdot 7 - [2 + (5 + 1)]\}$

   [A] 31   [B] 29   [C] 45   [D] −1

8. Subtract: 311   [A] 262   [B] 364   [C] 258   [D] 274
              $\underline{-\ 53}$

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9. Which of the following is a proper fraction?   [A] $\dfrac{18}{12}$ [B] $\dfrac{9}{9}$ [C] $\dfrac{8}{6}$ [D] $\dfrac{3}{4}$

10. Multiply: $2\dfrac{4}{7} \cdot 1\dfrac{5}{6}$

11. True or false: $0 \geq 8$

12. Multiply: $3 \times \dfrac{2}{21} \times \dfrac{7}{6}$ [A] $\dfrac{2}{9}$ [B] $\dfrac{7}{19}$ [C] $\dfrac{1}{3}$ [D] 1

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13. Which is NOT a multiple of 3?   [A] 4   [B] 15   [C] 6   [D] 30

Subtract:

14. $7 - 1\dfrac{3}{4} - \dfrac{3}{8}$ [A] 6   [B] $4\dfrac{7}{8}$ [C] $4\dfrac{29}{32}$ [D] $6\dfrac{3}{8}$

15. $-5.8 - (-4.3)$

16. Use < or > to write a true sentence: $\dfrac{6}{7}$ ____ $\dfrac{8}{9}$

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17. Round 149.851 to the nearest tenth.

18. What is the value of $*$? $\dfrac{2}{3} = \dfrac{*}{15}$

19. If $\dfrac{12}{6}$, $\dfrac{15}{4}$, $\dfrac{18}{6}$, and $\dfrac{21}{3}$ are placed in order from least to greatest, which will be first?

[A] $\dfrac{12}{6}$ [B] $\dfrac{15}{4}$ [C] $\dfrac{18}{6}$ [D] $\dfrac{21}{3}$

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20. A store buys skirts for $15 each and marks them up by 37% for retail sale. What is the retail price of each of the skirts?

21. $\dfrac{6}{10} = $ ____   [A] 0.06   [B] 0.4   [C] 0.6   [D] 16.0

22. Write 74% as a decimal.

23. Write 0.07 as a percent.   [A] 0.07%   [B] 7%   [C] 0.0007%   [D] $\dfrac{7}{100}$%

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24. Which law is illustrated by the following statement?
    $(3 \cdot 5) \cdot 4 = (5 \cdot 3) \cdot 4$

25. Find the reciprocal of 6.

26. Divide: $9 \div 0.13$

27. Write the following as a rate in lowest terms: 72 treats for 135 children.

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28. On Tuesday Bridget read 15 pages of a book. Wednesday she read 16 pages, Thursday she read 23 pages and on Friday she read 18.   What was her average number of pages read per day?

29. Write $\frac{4}{5}$ as a percent.   [A] 80%   [B] 45%   [C] 12.5%   [D] 0.8%

30. Which of the following is NOT equal to the ratio 18 to 30?

    [A] $\frac{5}{3}$ [B] 15:25   [C] 3:5   [D] $\frac{3}{5}$

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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] 24 _____

[2] 4 _____

[3] [C] _____

[4] 46,150,000 _____

[5] 3004 _____

[6] −18 _____

[7] [B] _____

[8] [C] _____

[9] [D] _____

[10] $4\dfrac{5}{7}$ _____

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[11] false _____

[12] [C] _____

[13] [A] _____

[14] [B] _____

[15] −1.5 _____

[16] $\dfrac{6}{7} < \dfrac{8}{9}$ _____

[17] 149.9 _____

[18] 10 _____

[19] [A] _____

[20] $20.55 _____

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[21] [C]_____

_____

[22] 0.74 _____

_____

[23] [B]_____

_____

[24] commutative law of multiplication _____

_____

[25] $\dfrac{1}{6}$ _____

_____

[26] 69.23 _____

_____

[27] $\dfrac{8 \text{ treats}}{15 \text{ children}}$ _____

_____

[28] 18 _____

_____

[29] [A]_____

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[30] [A]____