

MATH 165 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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NAME _____

1. Subtract:
$$\begin{array}{r} 388 \\ - 99 \\ \hline \end{array}$$
 [A] 289 [B] 291 [C] 387 [D] 317

2. Divide: $3528 \div 7$ [A] 504 [B] 494 [C] 540 [D] 54

3. Which law is illustrated by the following statement?
 $(3 \cdot 9) \cdot 7 = (9 \cdot 3) \cdot 7$

4. Simplify: $30 \div 6 + \{2 \cdot 9 - [5 + (2 + 1)]\}$
[A] 34 [B] 15 [C] 16 [D] 31

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5. On Tuesday Bridget read 28 pages of a book. Wednesday she read 14 pages, Thursday she read 17 pages and on Friday she read 17. What was her average number of pages read per day?

6. Round 99,885,162 to the thousands place.

7. Subtract: $9 - 1\frac{1}{2} - \frac{2}{5}$ [A] $8\frac{1}{10}$ [B] $7\frac{1}{5}$ [C] $8\frac{1}{3}$ [D] $7\frac{1}{10}$

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8. Use $<$ or $>$ to write a true sentence: $\frac{9}{10}$ — $\frac{11}{12}$

9. Which is NOT a multiple of 13? [A] 130 [B] 65 [C] 14 [D] 26

10. Divide: $8 \div 0.13$

11. Find the reciprocal of 18.

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12. Which of the following is a proper fraction? [A] $\frac{12}{4}$ [B] $\frac{2}{5}$ [C] $\frac{5}{2}$ [D] $\frac{6}{6}$

13. Multiply: $9 \times \frac{4}{63} \times \frac{3}{36}$ [A] $\frac{4}{189}$ [B] $\frac{3}{7}$ [C] $\frac{3}{59}$ [D] $\frac{1}{21}$

14. If $\frac{9}{2}$, $\frac{25}{7}$, $\frac{19}{6}$, and $\frac{19}{4}$ are placed in order from least to greatest, which will be first?

[A] $\frac{19}{4}$ [B] $\frac{25}{7}$ [C] $\frac{9}{2}$ [D] $\frac{19}{6}$

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15. $\frac{2}{10} = \underline{\hspace{2cm}}$ [A] 12.0 [B] 0.8 [C] 0.02 [D] 0.2

16. Multiply: $1\frac{3}{4} \cdot 3\frac{1}{2}$

17. What is the value of *? $\frac{3}{7} = \frac{*}{14}$

18. Round 849.851 to the nearest tenth.

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22. Write 0.06 as a percent. [A] 0.0006% [B] 6% [C] $\frac{6}{100}\%$ [D] 0.06%

23. Write $\frac{1}{5}$ as a percent. [A] 0.2% [B] 15% [C] 50% [D] 20%

24. Write the following as a rate in lowest terms: 90 calories for 70 crackers.

25. Divide: $-\left(\frac{21}{-3}\right)$

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26. Solve: $-x = -4$

27. Subtract: $6.9 - (-7.9)$

28. Simplify: $3 + 3(7 + 2)^3$

29. True or false: $-7 \leq 8$

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30. Subtract: $-19 - (-8)$

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NAME _____

[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] [A] _____

[3] commutative law of multiplication _____

[4] [B] _____

[5] 19 _____

[6] 99,885,000 _____

[7] [D] _____

[8] $\frac{9}{10} < \frac{11}{12}$ _____

[9] [C] _____

[10] 61.54 _____

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[11] $\frac{1}{18}$ _____

[12] [B] _____

[13] [D] _____

[14] [D] _____

[15] [D] _____

[16] $6\frac{1}{8}$ _____

[17] 6 _____

[18] 849.9 _____

[19] 0.68 _____

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[20] \$33.00 _____

[21] [A] _____

[22] [B] _____

[23] [D] _____

[24] $\frac{9 \text{ calories}}{7 \text{ crackers}}$ _____

[25] 7 _____

[26] 4 _____

[27] 14.8 _____

[28] 2190 _____

[29] true _____

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[30] -11 _____