

## MATH 165 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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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:  $\frac{3}{7} + \frac{5}{14}$       [A]  $\frac{4}{49}$       [B]  $1\frac{3}{11}$       [C]  $\frac{11}{14}$       [D]  $\frac{8}{21}$

8. List the fractions in order from greatest to least.

$\frac{14}{51}$ ,  $\frac{29}{33}$ ,  $\frac{11}{45}$ , and  $\frac{9}{50}$

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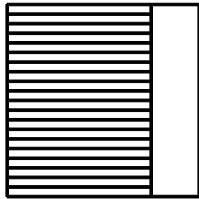
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9. Solve:  $x + 3.2 = 6.8$       [A] 2.6      [B] 21.76      [C] 10      [D] 3.6

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]  $\frac{9}{9}$

[B]  $\frac{7}{10}$

[C]  $\frac{10}{7}$

[D]  $\frac{18}{14}$

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

14. Add:  $\frac{2}{7} + \frac{1}{7}$  [A]  $\frac{3}{14}$

[B]  $\frac{3}{7}$

[C]  $\frac{2}{49}$

[D]  $\frac{7}{3}$

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

[A] 1456

[B] 182

[C] 728

[D] 2912

Subtract:

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

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

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

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  $6\frac{1}{4}\%$  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]  $\frac{4 \text{ treats}}{11 \text{ children}}$

[B]  $\frac{11 \text{ treats}}{4 \text{ children}}$

[C]  $\frac{22 \text{ children}}{8 \text{ treats}}$

[D]  $\frac{99 \text{ children}}{36 \text{ treats}}$

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

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

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

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]  $9x + 8$



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Simplify:

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

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

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[2] [A]

---

[3] [D]

---

[4] 703

---

[5] [D]

---

[6] \$3840

---

[7] [C]

---

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

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[9] [D]

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[10] [D]

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[11] 62.46

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[12] [B]

---

[13]  $\frac{7}{8}$

---

[14] [B]

---

[15] [A]

---

[16]  $4\frac{2}{7}$

---

[17] [A]

---

[18] [C]

---

[19] \$32.40 for 12 bars of soap

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[20] \$38.18 \_\_\_\_\_

---

[21] [C] \_\_\_\_\_

---

[22] [B] \_\_\_\_\_

---

[23] [D] \_\_\_\_\_

---

[24] [C] \_\_\_\_\_

---

[25] [D] \_\_\_\_\_

---

[26] [C] \_\_\_\_\_

---

[27] [C] \_\_\_\_\_

---

[28] [B] \_\_\_\_\_

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[29] 343 \_\_\_\_\_

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[30] 248