

MATH 075 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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Simplify:

1. $6 \times (7 + 4)$ [A] 66 [B] 168 [C] 17 [D] 46

2. $2x + 2 - 5x - 2$ [A] $-3x$ [B] $-3x + 4$ [C] $7x + 4$ [D] $7x$

3. Which number is divisible by 5 and by 4?
[A] 340 [B] 1364 [C] 1695 [D] 1705

4. Divide: $705 \overline{)69,123}$

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5. Subtract: $642 - 326$ [A] 356 [B] 316 [C] 968 [D] 328

6. Write 360 as a product of primes.

7. Add: $7 + 28.27$ [A] 35.27 [B] 39.27 [C] 28.34 [D] 40.27

8. The ratio of cars to people in New Zealand is 400 to 1000. Write this ratio as a fraction in reduced form.

- [A] $\frac{1}{5}$ [B] $\frac{2}{5}$ [C] $\frac{4}{5}$ [D] $\frac{400}{1000}$

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9. Subtract: $9 - 4\frac{1}{2} - \frac{5}{7}$

10. Multiply: $\frac{4}{5} \times \frac{5}{6}$ [A] $\frac{2}{3}$ [B] $\frac{9}{11}$ [C] $4\frac{1}{6}$ [D] 1

11. Simplify: $\frac{0}{249}$

12. Write the expression six and fifty-seven ten-thousandths as a decimal.

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13. Subtract: $7 - 1.937$ [A] none of these [B] 4.126 [C] 9.937 [D] 5.063

14. Multiply: $3 \times \frac{4}{27} \times \frac{5}{12}$ [A] $\frac{5}{9}$ [B] $\frac{5}{23}$ [C] $\frac{5}{27}$ [D] $\frac{20}{81}$

15. Divide: $1\frac{6}{7} \div 3\frac{5}{14}$

16. Write $\frac{3}{4}$ as a decimal. [A] 0.76 [B] 0.85 [C] 0.075 [D] 0.75

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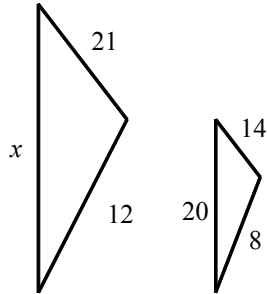
17. Write 3.45 as a reduced fraction.
18. A boat that normally sells for \$3240 is put on sale at $\frac{3}{10}$ off the regular price. What is the amount of discount on the boat?
19. What is the salesperson's commission on a \$900 sale if the commission rate is 20%?
20. Write 44% as a decimal.

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21. The triangles below are similar. Find the length of x .



- [A] 13.3 [B] 30 [C] 31.5 [D] 17.1
22. Express the rate as a unit rate: \$118.75 for 95 disks
23. The regular price of a suit is \$70. It is on sale at 24% off. What is the sale price?
- [A] \$53.20 [B] \$16.80 [C] \$46.00 [D] \$24.00

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24. The cost of 30 shares of Fly-by-Night Airlines is \$62.50. How many shares can you buy with \$625.00?

25. Simplify: $36 \div 6 \cdot 6 + 8 - 2$ [A] 42 [B] 72 [C] 82 [D] 7

26. Subtract: $-4.3 - (-2.5)$ [A] 6.8 [B] -6.8 [C] -1.8 [D] 1.8

Multiply:

27. $8 \cdot (-2)$ [A] -16 [B] 16 [C] 6 [D] 10

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Multiply:

28. $(-1.6)(5.6)$ [A] 89.6 [B] -89.6 [C] -8.96 [D] 8.96

29. Add: $(-5) + 2 + (-5)$

30. Subtract: $-13 - 8$

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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] [A]

[3] [A]

[4] 98 R 33

[5] [B]

[6] $2^3 \times 3^2 \times 5$

[7] [A]

[8] [B]

[9] $3\frac{11}{14}$

[10] [A]

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[11] 0 _____

[12] 6.0057 _____

[13] [D] _____

[14] [C] _____

[15] $\frac{26}{47}$ _____

[16] [D] _____

[17] $3\frac{9}{20}$ _____

[18] \$972 _____

[19] \$180 _____

[20] 0.44 _____

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[21] [B] _____

[22] \$1.25 per disk _____

[23] [A] _____

[24] 300 shares _____

[25] [A] _____

[26] [C] _____

[27] [A] _____

[28] [C] _____

[29] -8 _____

[30] -21 _____