## MATH 075 Sample 02 Exam 2

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. Write the prime factors of 12 .
2. Subtract: $533-415$
[A] 118
[B] 948
[C] 128
[D] 138
3. The balance in a savings account is $\$ 4100$. If $\$ 949$ is withdrawn, how much money is left in the account?
4. Simplify: $16 \div 4 \cdot 4+7-2$
[A] 5
[B] 9
[C] 6
[D] 21

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Subtract:
5. $\frac{17}{24}-\frac{7}{24}$
6. $4 \frac{1}{2}-1 \frac{5}{7}$
[A] $2 \frac{1}{2}$
[B] $3 \frac{4}{21}$
[C] $3 \frac{1}{21}$
[D] $2 \frac{11}{14}$
7. Add: $\frac{2}{11}+\frac{1}{11}$
[A] $\frac{2}{121}$
[B] $\frac{3}{22}$
[C] $\frac{3}{11}$
[D] $\frac{11}{3}$

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8. Round 2.248 meters to the nearest hundredth of a meter.
[A] 2.3 m
[B] 2.26 m
[C] 2.2 m
[D] 2.25 m
9. Write a decimal to estimate the amount of area shaded.

[A] 0.75
[B] 7.5
[C] 0.5
[D] 0.25
10. Write 3.35 as a reduced fraction.

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11. Divide: $4 \div 0.13$
12. The approximate ratio of the circumference (distance around) to diameter (distance across the top) of an oil barrel is 121 inches to 38.5 inches. Write this ratio as a fraction in reduced form.
13. If 2 boxes of cherries cost $\$ 7.20$, how much do 7 boxes of cherries cost?
[A] \$28.80
[B] $\$ 21.60$
[C] \$32.40
[D] \$25.20

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14. Mario bought a pair of shoes priced at $\$ 22.00$. If the sales tax rate in Mario's state is $7 \%$, what is the sales tax on the shoes?
[A] \$1.54
[B] \$37.40
[C] \$15.40
[D] \$23.54
15. Write $52 \frac{3}{5} \%$ as a decimal.
16. Multiply: $5 \cdot(-2)$
[A] 10
[B] -10
[C] 7
[D] 3
17. Simplify: $5(-4+3)$

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Multiply:
18. $(-6)(5)(-1)$
[A] -2
[B] 2
[C] 30
[D] -30
19. $(-2)(7)(1)$
20. Convert 4 meters to yards.
[A] 1.22 yards
[B] 13.12 yards
[C] 4.36 yards
[D] 3.67 yards

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21. The circle graph below represents a family's monthly budget. If the total monthly income is $\$ 1900$, how much is spent on food?

[A] $\$ 760$
[B] \$350
[C] \$665
[D] \$400

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22. The pictogram below represents the number of new houses started in a city during the first six months of last year. Each house figure represents 40 new houses. How many new houses were started in June of last year?

23. Name the mode or modes in the following sample.
$7,1,24,22,19,22,29,25,9,27,22$
[A] 18.8
[B] 29, 1
[C] 28
[D] 22

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24. What data are represented by the stem-and-leaf plot below?

| 4 | 3 | 6 | 7 |
| :--- | :--- | :--- | :--- |
| 5 | 2 | 3 | 8 |
| 6 | 5 | 9 |  |

[A] $43,46,47,52,53,58,65,69$
[B] $34,64,74,25,35,85,56,96$
[C] 3, 6, 7, 2, 3, 8, 5, 9
[D] 43, 46, 47, 25, 35, 85, 56, 96
25. The data below shows the final exam grades for Miss Gold's science class. 91, 72, 67, 60, 77, 85, 57, 95, 50, 81 $86,59,70,93,66,65,84,61,63,74$
Make a stem-and-leaf plot for the data.

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NAME $\qquad$
[1] $\qquad$
[2] $\qquad$
[3] $\qquad$
[4] $\qquad$
[5] $\qquad$
[6] $\qquad$
[7] $\qquad$
[8] $\qquad$
[9] $\qquad$
[10] $\qquad$
[11] $\qquad$
[12] $\qquad$
[13] $\qquad$
[14] $\qquad$
[15] $\qquad$

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[16]
[17] $\qquad$
[18] $\qquad$
[19] $\qquad$
[20] $\qquad$
[21] $\qquad$
[22] $\qquad$
[23] $\qquad$
[24] $\qquad$
[25] $\qquad$

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[1] 2,3
[2] [A]
[3] $\$ 3151$
[4] [D]
[5] $\frac{5}{12}$
[6] [D]
[7] [C]
[8] [D]
[9] [A]

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[10] $3 \frac{7}{20}$
[11] 30.77
[12] $\frac{22}{7}$
[13] [D]
[14] [A]
[15] 0.526
[16] [B]
[17] -5
[18] [C]

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[19] -14
[20] [C]
[21] [A]
[22] 220 houses
[23] [D]
[24] [A]

| 5 | $0,7,9$ |
| ---: | :--- |
| 6 | $0,1,3,5,6,7$ |
| 7 | $0,2,4,7$ |
| 8 | $1,4,5,6$ |
| $[25] 9$ | $1,3,5$ |

