## MATH 075 Sample 01 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. Round $34,926,623$ to the millions place.
2. Add: $603+1076$
3. Subtract: 815
[A] 739
[B] 761
[C] 741
[D] 891
4. Simplify: $13(96-32 \div 8)+9 \cdot 8$

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Multiply:
5. $1 \frac{1}{6} \times 3 \frac{7}{8}$
[A] $\frac{7}{48}$
[B] $\frac{15}{16}$
[C] $4 \frac{25}{48}$
[D] $3 \frac{7}{48}$
6. $2 \frac{4}{9} \cdot 3 \frac{1}{6}$
7. Which of the following fractions is equal to $\frac{4}{3}$ ?
[A] $\frac{12}{9}$
[B] $\frac{12}{24}$
[C] $\frac{3}{4}$
[D] $\frac{32}{9}$

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8. Subtract: $\frac{13}{16}-\frac{7}{16}$
9. Find the least common multiple of 22,14 , and 112.
[A] 1232
[B] 924
[C] 616
[D] 154
10. Add: $\$ 33.30$
[A] \$37.14
[B] \$37.54
[C] \$41.14
[D] \$31.14
$+4.24$

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11. Subtract: $53.8-0.694-2.63$
[A] 44.23
[B] 50.476
[C] 50.386
[D] 40.476
12. Solve: $\frac{2}{4}=\frac{4}{x}$
[A] 8
[B] 14
[C] 11
[D] 7
13. Use similar triangles to find $x$.

[A] 45 ft
[B] 16.2 ft
[C] 0.89 ft
[D] 5 ft

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14. Write $5 \frac{1}{4} \%$ as a decimal.
[A] 5.25
[B] 0.0525
[C] 0.525
[D] 525
15. 4 is what percent of 40 ?
16. Solve: $x+2.2=9.1$
17. Which of the following is a true statement?
[A] $|-4|<|3|$
[B] $|-4|<|4|$
[C] $0>|-3|$
[D] $|-4|>|3|$

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18. Multiply: $(-4.4)(5.2)$
[A] -22.88
[B] -228.8
[C] 22.88
[D] 228.8
19. Solve: $3.2 x=-0.32$
[A] -0.1
[B] 3.52
[C] -3.52
[D] -10.0000
20. What is the time 4 hours BEFORE 10:00 p.m.?
[A] 6:00 a.m.
[B] 2:00 p.m.
[C] 6:00 p.m.
[D] 2:00 a.m.

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21. 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 50 new houses. How many new houses were started in January of last year?

[A] 225 houses
[B] 275 houses
[C] 6.5 houses
[D] 5.5 houses
22. The algebra final exam scores for 24 students are listed below:
$95,82,87,83,85,72,74,79,70,71,69,64,66,53,52,55,68,67,76,71,88,80,91,99$ Construct a histogram and frequency polygon.

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23. The circle graph below represents the main sources of water pollution. According to the circle graph, which is the main source of water pollution?

Source of Water Pollution

24. What is the mode in the following sample?
$11,10,24,10,1,9,13,10$

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25. What are the mean, median, and mode of the data in the following sample?

$$
3,26,27,18,23,23,17,11,23
$$

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

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[1] 35,000,000
[2] 1679
[3] [A]
[4] 1268
[5] [C]
$\qquad$
[6] $7 \frac{20}{27}$
$\qquad$
[7] [A]
[8] $\frac{3}{8}$
[9] [A]

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[-_
[10] [B]
[11] [B]
[12] [A]
[13] [D]
[14] [B]
$\qquad$
[15] 10\%
[16] 6.9
[17] [D]
[18] [A]
[19] [A]

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[20] [C]
[21] [B]

[22] $\qquad$
[23] industry
[24] 10
[25] 19, 23, 23

