MATH 165 Sample 03 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 3600 as a product of primes.

2. Multiply: $13 \times 11 \times 18 \times 6$

3. Add: $9 + 10 + 6 + 3 + 18$

4. In 564,297 what digit tells the number of hundreds?

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5. Simplify: $4^2 \cdot 5^2$ [A] 41   [B] 80   [C] 400   [D] 100

6. Write the first three multiples of 8.

7. What is the value of $*$? $\dfrac{2}{3} = \dfrac{*}{24}$

8. Nan has saved $73.96 toward the purchase of a television that costs $355.20. How much more must Nan save in order to buy the television?

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9. Write $\dfrac{29}{4}$ as a mixed number.

10. Find the greatest common factor of 2 and 72. [A] 4 [B] 2 [C] 1 [D] 3

11. Which of the following is NOT equal to the ratio 14 to 35?

   [A] $\dfrac{2}{5}$ [B] 2:5 [C] 12:30 [D] $\dfrac{5}{2}$

12. Solve: $\dfrac{2}{4} = \dfrac{x}{12}$ [A] 3 [B] 11 [C] 9 [D] 6

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13. The cost of 50 shares of Fly-by-Night Airlines is $52.50. How many shares can you buy with $525.00?

14. Approximate each unit price to decide which is the better buy:
    $6.18 for 6 cartons of milk or $8.16 for 8 cartons of milk

15. Simplify: $2 - 6 \cdot 5 \div 3 + 2$ [A] –3   [B] 6   [C] –6   [D] 3

16. Multiply: (–2.3)(3.5)

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Simplify:

17. $-(-7) - 9(10 - 4)$

18. $3x - 7(x - 3)$ [A] $10x + 21$ [B] $-4x + 21$ [C] $-4x - 21$ [D] $-4x - 3$

19. The data below shows the final exam grades for Miss Gold's English class.
56, 85, 69, 64, 65, 94, 62, 81, 76, 86
83, 53, 73, 66, 89, 60, 79, 55, 74, 57
Make a stem-and-leaf plot for the data.

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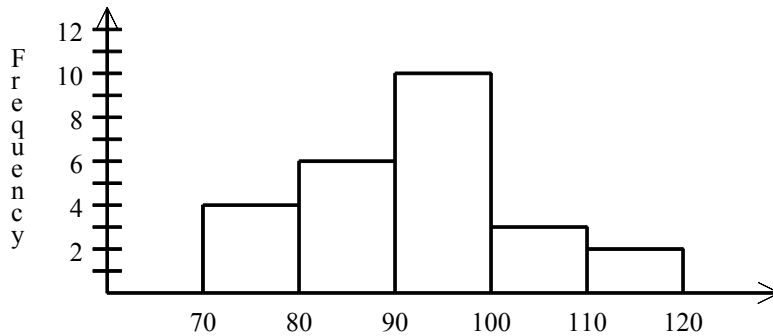
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20. Convert 10 centimeters to inches.

[A] 3.90 inches   [B] 256.41 inches   [C] 0.39 inches   [D] 25.64 inches

21. The golf scores for the 25 members of the Belmont Country Club are represented in the
histogram below. What percentage of the golfers had scores from 90 to 100?

[A] 64.0%   [B] 40.0%   [C] 24.0%   [D] 60.0%

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22. What is the mean of the following sample?   [A] 6   [B] 23   [C] 13   [D] 9.5
     17, 13, 12, 24, 4, 19, 9, 15, 4

23. What is the time 3 hours BEFORE 10:00 a.m.?

     [A] 7:00 p.m.   [B] 7:00 a.m.   [C] 1:00 a.m.   [D] 1:00 p.m.

24. The algebra final exam scores for 21 students are listed below:
     99, 80, 81, 72, 77, 73, 72, 78, 79, 60, 63, 61, 64, 55, 67, 66, 75, 78, 86, 84, 98
     Construct a histogram and frequency polygon.

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25. Convert $10°$ Celsius to degrees Fahrenheit.

   [A] $32°F$ [B] $50°F$ [C] $122°F$ [D] $24°F$

26. Name the mode or modes in the following sample.
   2, 13, 15, 27, 7, 27, 2, 9, 2, 21, 7
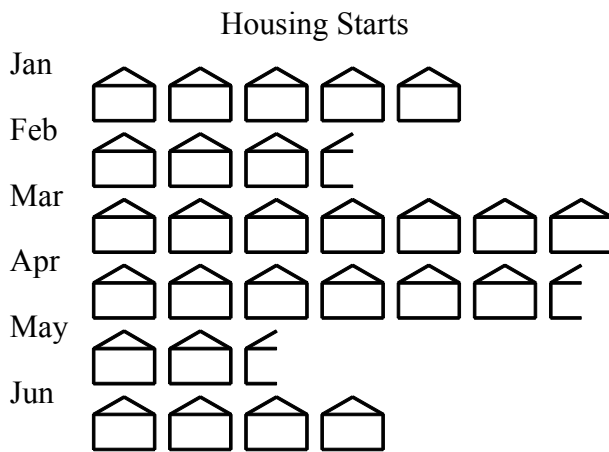
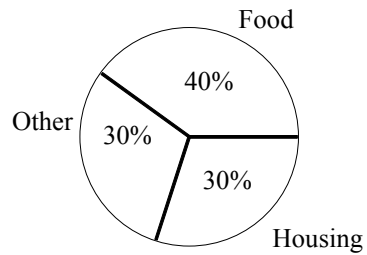   [A] 7   [B] 27, 2   [C] 12.0   [D] 2

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27. 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 20 new houses. How many new houses were started in April of last year?

Housing Starts

Jan	⌂ ⌂ ⌂ ⌂ ⌂
Feb	⌂ ⌂ ⌂ ⌐
Mar	⌂ ⌂ ⌂ ⌂ ⌂ ⌂
Apr	⌂ ⌂ ⌂ ⌂ ⌂ ⌐
May	⌂ ⌂ ⌐
Jun	⌂ ⌂ ⌂

28. What is the time 4 hours BEFORE 10:00 p.m.?

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

Food

40%

Other
30%

30%

Housing

[A] $400   [B] $570   [C] $300   [D] $760

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

3 | 6 7 9
4 | 5 7 8
5 | 6 7

[A] 63, 73, 93, 54, 74, 84, 65, 75   [B] 36, 37, 39, 54, 74, 84, 65, 75

[C] 36, 37, 39, 45, 47, 48, 56, 57   [D] 6, 7, 9, 5, 7, 8, 6, 7

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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] $2^4 \times 3^2 \times 5^2$ _____

_____

[2] 15,444 _____

_____

[3] 46 _____

_____

[4] 2 _____

_____

[5] [C] _____

_____

[6] 8, 16, 24 _____

_____

[7] 16 _____

_____

[8] $281.24 _____

_____

[9] $7\dfrac{1}{4}$ _____

_____

[10] [B] _____

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_____

_____

[11] [D]_____

_____

[12] [D]_____

_____

[13] 500 shares_____

_____

[14] $8.16 for 8 cartons of milk_____

_____

[15] [C]_____

_____

[16] −8.05_____

_____

[17] −47_____

_____

[18] [B]_____

_____

```
5 | 3, 5, 6, 7
6 | 0, 2, 4, 5, 6, 9
7 | 3, 4, 6, 9
8 | 1, 3, 5, 6, 9
[19] 9 | 4
```
_____

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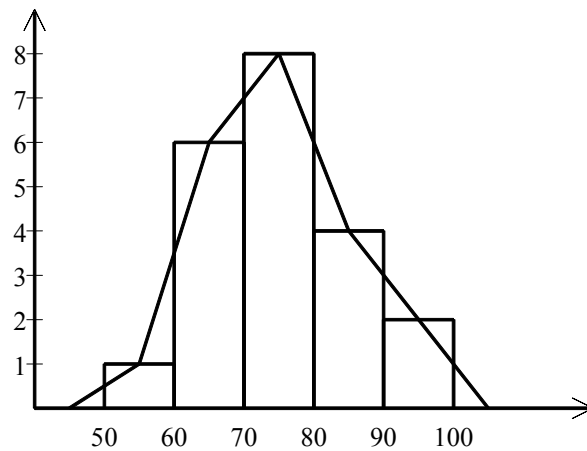
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[20] [A]_____

[21] [B]_____

[22] [C]_____

[23] [B]_____

[24] _____

[25] [B]_____

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[26] [D]_____

[27] 130 houses _____

[28] 6:00 p.m. _____

[29] [D]_____

[30] [C]_____