

MATH 165 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. Give the place value of the digit 7 in 356,847,912.

[A] thousands [B] hundreds [C] millions [D] ten thousands

2. Multiply: $6 \times 33 \times 90$ [A] 20,790 [B] 178,200 [C] 17,820 [D] 106,920

3. Divide: $4 \overline{)420}$

Simplify:

4. $2^4 \cdot 5^2$ [A] 400 [B] 41 [C] 50 [D] 80

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Simplify:

5. $4 \times (6 + 8)$ [A] 18 [B] 192 [C] 32 [D] 56

6. Write $\frac{10}{7}$ as a mixed number. [A] $1\frac{7}{3}$ [B] $1\frac{2}{7}$ [C] $1\frac{3}{7}$ [D] $1\frac{1}{7}$

7. Find a fraction equivalent to $\frac{3}{5}$ with a denominator of 25.

[A] $\frac{12}{25}$ [B] $\frac{18}{25}$ [C] $\frac{15}{25}$ [D] $\frac{16}{25}$

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8. Find the least common multiple of 26, 22, and 176.

[A] 1144

[B] 286

[C] 2288

[D] 4576

9. Find the LCD: $\frac{7}{9}, \frac{20}{27}, \frac{1}{6}$

[A] 27

[B] 162

[C] 54

[D] 108

10. Divide: $253.5 \div 13$

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11. A science class consists of 18 males and 13 females. Find the ratio of males to the entire class.

[A] $\frac{18}{31}$

[B] $\frac{18}{13}$

[C] $\frac{13}{18}$

[D] $\frac{13}{31}$

12. If 2 cans of peaches cost \$9.60, how many cans of peaches can be purchased with \$43.20?

[A] 8

[B] 9

[C] 10

[D] 11

13. What is the salesperson's commission on a \$500 sale if the commission rate is 10%?

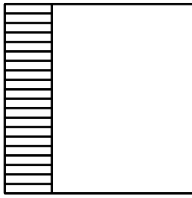
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14. Write a percent to estimate the amount shaded.



[A] about 50%

[B] about 25%

[C] about 2.5%

[D] about 75%

Simplify:

15. $-8 - 2 \cdot 5$

16. $3x + 2(x + 2)$

[A] $x + 4$

[B] $5x + 4$

[C] $5x - 4$

[D] $5x + 2$

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17. Solve: $\frac{7}{4}x = -28$ [A] 16 [B] 49 [C] -49 [D] -16

18. Simplify: $-(-3) - 9(9 - 5)$

19. Convert 80 ounces to pounds.

20. What is the time 4 hours BEFORE 9:00 a.m.?

[A] 5:00 p.m. [B] 1:00 p.m. [C] 1:00 a.m. [D] 5:00 a.m.

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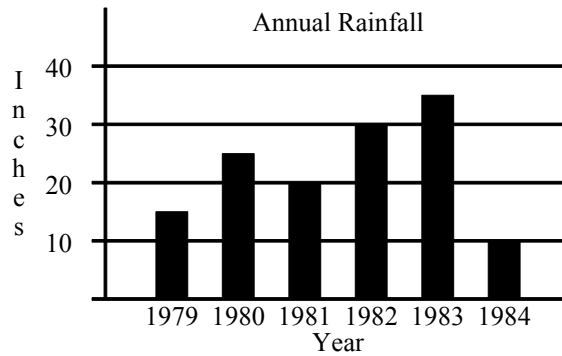
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21. Complete: $94.7 \text{ mm} = \underline{\hspace{1cm}} \text{ dm}$ [A] 9470 [B] 0.947 [C] 947 [D] 9.47

22. Convert 6 feet to meters.

[A] 19.67 meters [B] 6.56 meters [C] 5.48 meters [D] 1.83 meters

23. The graph below represents the annual rainfall in inches for 1979 - 1984. How much did it rain in 1981?



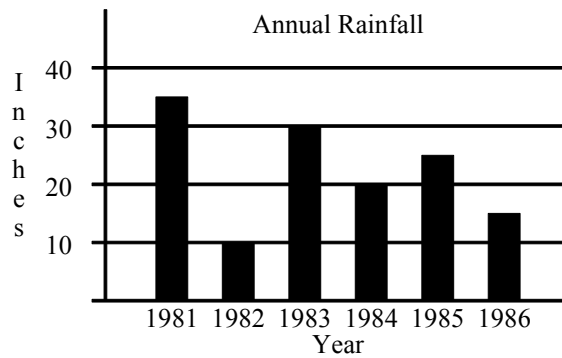
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24. The graph below represents the annual rainfall in inches for 1981 - 1986. How much did it rain in 1984?



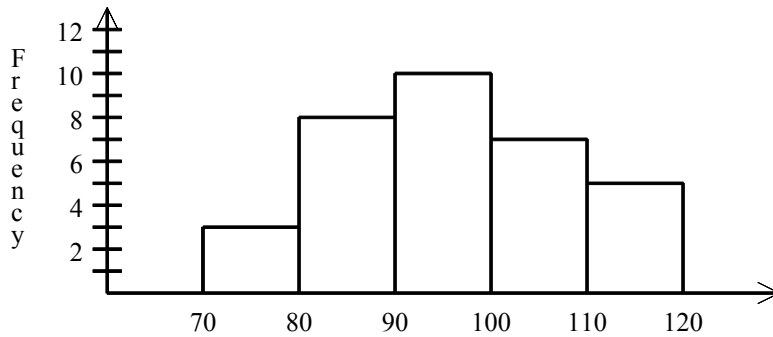
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25. The golf scores for the 33 members of the Belmont Country Club are represented in the histogram below. What percentage of the golfers had scores from 90 to 100?



[A] 30.3%

[B] 24.2%

[C] 54.5%

[D] 51.5%

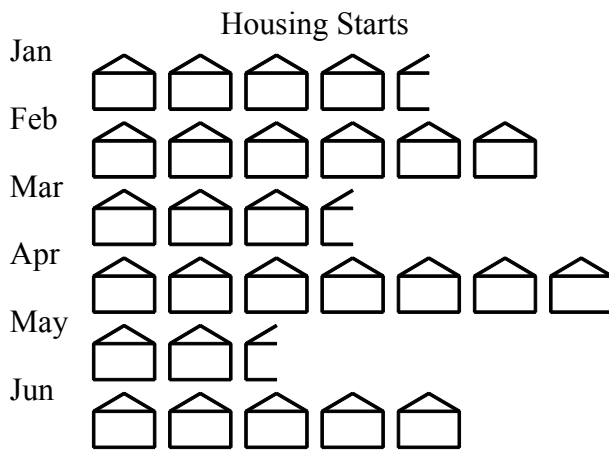
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26. The pictogram below represents the number of new houses started in a city during the first six months of last year. Each house figure represents 10 new houses. How many new houses were started in May of last year?



[A] 35 houses

[B] 3.5 houses

[C] 2.5 houses

[D] 25 houses

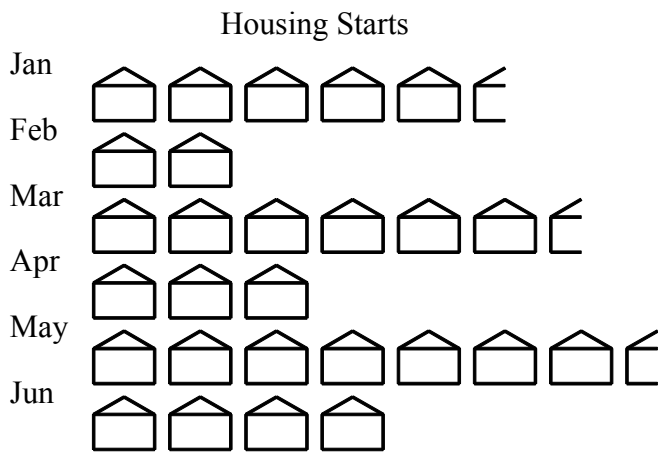
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27. The pictogram below represents the number of new houses started in a city during the first six months of last year. Each house figure represents 20 new houses. How many new houses were started in February of last year?



28. The algebra final exam scores for 23 students are listed below:
83, 81, 85, 88, 71, 74, 79, 73, 74, 62, 61, 69, 57, 58, 55, 56, 60, 63, 70, 76, 72, 87, 95
Construct a histogram and frequency polygon.

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29. What is the mean of the following sample?

20, 12, 27, 6, 7, 1, 23, 15, 6

[A] 13

[B] 17.5

[C] 3

[D] 20

30. What is the mode in the following sample?

4, 9, 9, 17, 2, 9, 8, 4, 5, 3

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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] [C]

[3] 105

[4] [A]

[5] [D]

[6] [C]

[7] [C]

[8] [C]

[9] [C]

[10] 19.5

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[11] [A] _____

[12] [B] _____

[13] \$50 _____

[14] [B] _____

[15] -18 _____

[16] [B] _____

[17] [D] _____

[18] -33 _____

[19] 5 lb _____

[20] [D] _____

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[21] [B] _____

[22] [D] _____

[23] 20 in. _____

[24] 20 in. _____

[25] [A] _____

[26] [D] _____

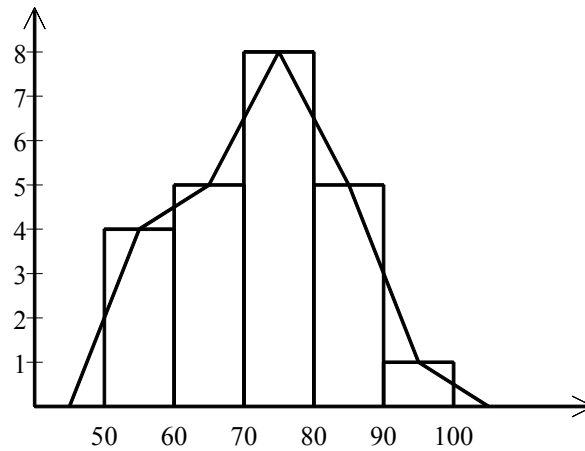
[27] 40 houses _____

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[28] _____

[29] [A] _____

[30] 9 _____