

MATH 165 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. Simplify: $9 \div 3 \cdot 3 + 5 - 2$ [A] 12 [B] 6 [C] 3 [D] 4

2. On Tuesday Carlos read 30 pages of a book. Wednesday he read 20 pages, Thursday he read 21 pages and on Friday he read 21. What was his average number of pages read per day?

3. Miguel makes loan payments of \$320 each month for 12 months. What is the total amount of money paid?

4. Simplify: $3^2 \cdot 2^2$

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5. Divide: $949 \overline{)57,910}$

6. List all the factors of 36.

7. List the fractions in order from greatest to least.

$$\frac{25}{17}, \frac{21}{41}, \frac{27}{34}, \text{ and } \frac{17}{44}$$

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8. Write $\frac{20}{1000}$ as a decimal.

9. Find the greatest common factor of 88, 368, and 184.

[A] 16

[B] 8

[C] 24

[D] 184

10. Add: $\frac{3}{8} + \frac{3}{14}$

11. What is the salesperson's commission on a \$1300 sale if the commission rate is 10%?

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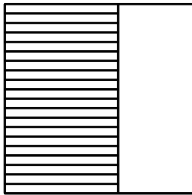
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12. Write 0.02 as a percent. [A] 0.0002% [B] 0.02% [C] $\frac{2}{100}$ % [D] 2%

13. Write three equal ratios for the ratio 4 : 24.

14. Write a percent to estimate the amount shaded.



[A] about 60% [B] about 40% [C] about 50% [D] about 6%

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15. Simplify: -8^2

16. Add: $(-2) + 5 + (-6)$ [A] 3 [B] -3 [C] -1 [D] 13

17. Divide: $-\frac{2}{7} \div \left(-\frac{3}{14}\right)$ [A] $-\frac{3}{49}$ [B] $-\frac{4}{3}$ [C] $\frac{3}{49}$ [D] $\frac{4}{3}$

18. Simplify: $4x - 5(x + 6)$

[A] $-x - 30$ [B] $-x + 30$ [C] $9x - 30$ [D] $-x + 6$

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19. What is the median in the following sample?
25, 8, 17, 13, 16, 11, 15, 3, 21
20. Find the median of the set of numbers. [A] 26 [B] 20.8 [C] 37 [D] 27.9
8, 36, 32, 9, 38, 1, 26, 2, 35
21. What is the mode in the following sample?
8, 2, 9, 17, 5, 2, 25, 13, 20, 7, 2
22. Complete: 9 km = _____ dm

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23. Name the mode or modes in the following sample.

8, 10, 4, 14, 30, 25, 5, 3, 15, 13, 3

[A] 11.8

[B] 11

[C] 3

[D] 30, 3

24. Convert 15° Celsius to degrees Fahrenheit.

[A] 59°F

[B] 138°F

[C] 49°F

[D] 29°F

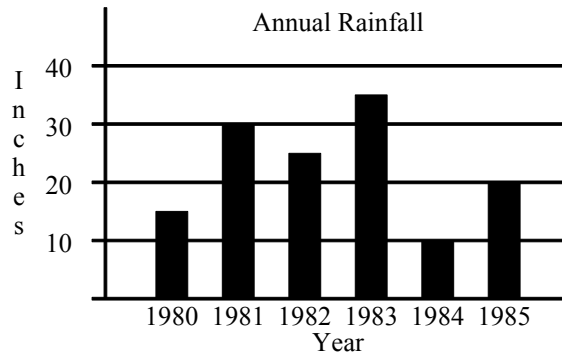
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25. The graph below represents the annual rainfall in inches for 1980 - 1985. How much did it rain in 1982?



26. Complete: $36.2 \text{ mm} = \underline{\hspace{2cm}} \text{ dm}$ [A] 362 [B] 0.362 [C] 3620 [D] 3.62

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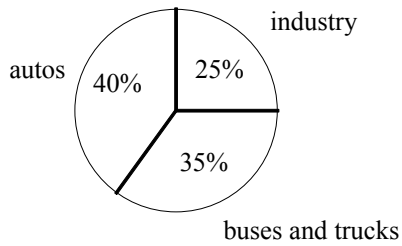
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27. The circle graph below represents the main sources of air pollution. According to the circle graph, which is the main source of air pollution?

Source of Air Pollution



28. Complete: 90 in. = _____ ft [A] 15 [B] $7\frac{1}{2}$ [C] 1080 [D] 30

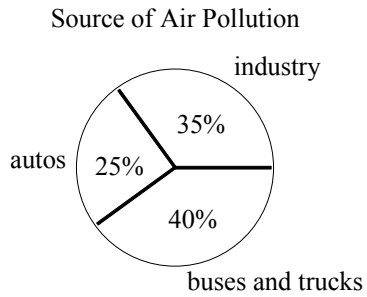
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29. The circle graph below represents the main sources of air pollution. According to the circle graph, which is the main source of air pollution?



- [A] autos [B] buses and trucks [C] industry [D] cannot be determined

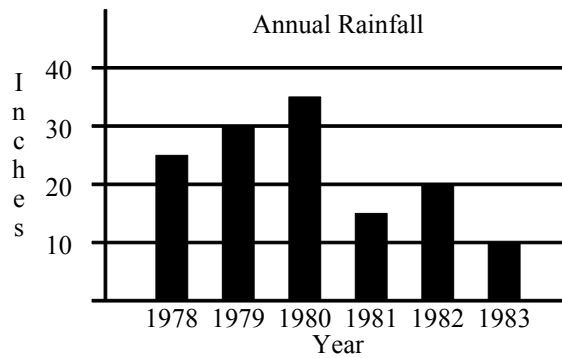
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30. The graph below represents the annual rainfall in inches for 1978 - 1983. How much did it rain in 1981?



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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] 23 _____

[3] \$3840 _____

[4] 36 _____

[5] 61 R 21 _____

[6] 1, 2, 3, 4, 6, 9, 12, 18, 36 _____

[7] $\frac{25}{17}$, $\frac{27}{34}$, $\frac{21}{41}$, $\frac{17}{44}$ _____

[8] 0.02 _____

[9] [B] _____

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[10] $\frac{33}{56}$ _____

[11] \$130 _____

[12] [D] _____

[13] Answers may include 1 : 6, 2 : 12, 3 : 18, etc

[14] [A] _____

[15] -64 _____

[16] [B] _____

[17] [D] _____

[18] [A] _____

[19] 15 _____

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[20] [A] _____

[21] 2 _____

[22] 90,000 _____

[23] [C] _____

[24] [A] _____

[25] 25 in. _____

[26] [B] _____

[27] autos _____

[28] [B] _____

[29] [B] _____

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[30] 15 in. _____