

Contemporary Math Comprehensive Review

Name: _____ Date: _____

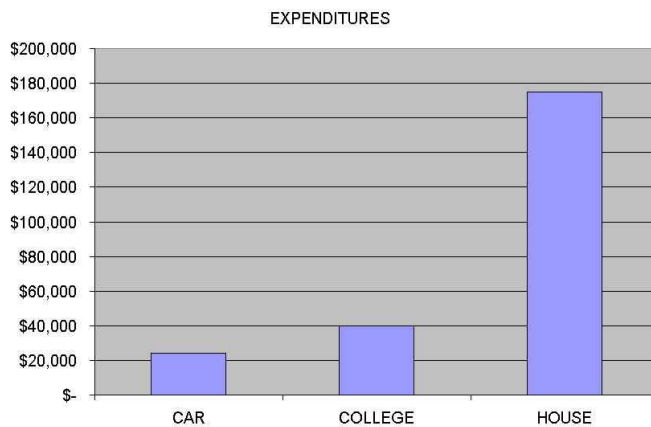
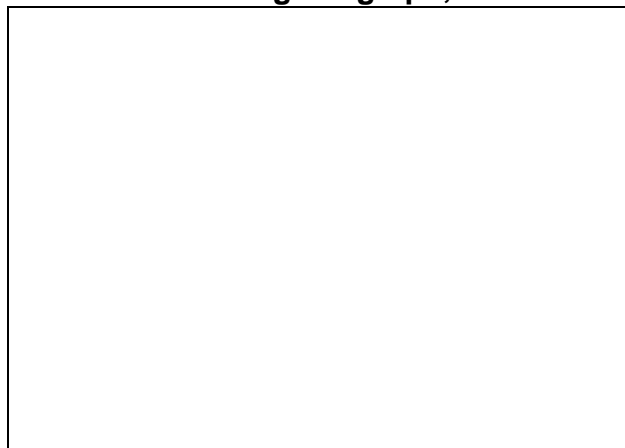
1. Create a statistical graph from the 30 baseball batting averages using the data shown and placing the data in seven classes.

303	294	287	265	310	293	235	287	310	306
291	325	295	277	301	350	268	190	220	280
370	303	286	215	240	267	285	294	301	345

Class	Tally	Frequency	



2. From observing the graph, estimate the expenditures for a car, college and a house.



3. What are the next two elements in the series: (1.25, 1.75, 2.25, 3.75, 4.25, _____, _____)

Explain your process:

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4. You finished a project at 1:30 am and you have been at work for 16 hours. What time did you start work yesterday?

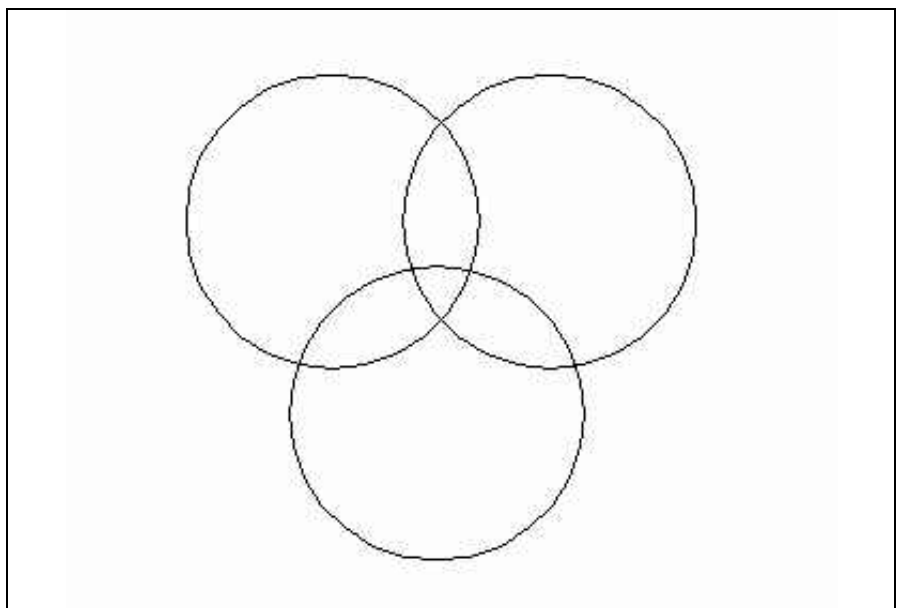
5. A scientific test begins at 10:00 am on Monday and lasts for 400 hours. On what day and at what time will the test conclude?

6. Figure the simple interest on a \$35,000 loan borrowing at $7\frac{1}{4}\%$ for 6 years

7. Place the correct numbers and labels in the Venn Diagram

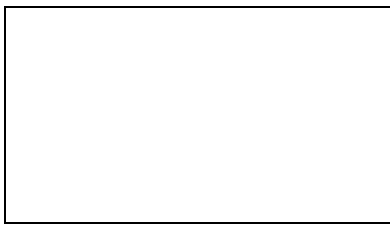
300 adults were tested about their drinking habits. They were asked what beverages do they drink consistently.

Soda:	110
Juice:	95
Coffee:	101
Soda and Juice:	15
Soda and Coffee:	14
Juice and Coffee:	75
All three:	12

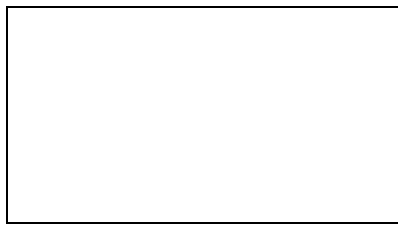


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8. Draw and label the Venn diagrams matching the terminology below



a. $R \cup S$ with
 $U = 5$



b. E'

9. The maximum number of subsets in the set $\{a,b,c,d\}$ is

a. 4

b. 16

c. 32

d. 64

10. Label the following sets as infinite or finite:

_____ $\{A,B,C,\dots,Z\}$

_____ $\{2,4,6,\dots\}$

11. Find the future value of an annuity when your payments are \$2400 semiannually with an interest rate of 20.5% compounded semiannually for 6 years.

12. Compute the answers for these problems:

a. $\sqrt{-32(-2)}$

b. $\frac{2(-3-15)}{-2^3} + 3 \times 2^3$

c. $(25-4)^2$

d. 8.4^2

e. $-2\frac{1}{4} \times -3\frac{1}{5}$

f. $4\frac{3}{8} \div 2\frac{3}{4}$

g. $5\frac{1}{3} - 1\frac{2}{3}$

h. $1\frac{1}{2} + 4\frac{3}{8} + 3\frac{1}{4}$

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13. Write the Roman Numerals as base 10 numbers

- a. CCLXIX
- b. CMLIV

14. Convert the numbers to Roman Numerals

- a. 750
- b. 98

15. Convert the following numbers to fractions

- a. 0.321
- b. $0.\overline{77}$
- c. 125%

16. Create a truth table for the simple statements below. Write the compound truth statement to the left of the box for an Andstatement.

“The weather is warmer”

“The sky is blue”

And Statement

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17. Write the negations of the simple statements used in preceding problem in sentence form. Show a truth table showing the negation of both statements.

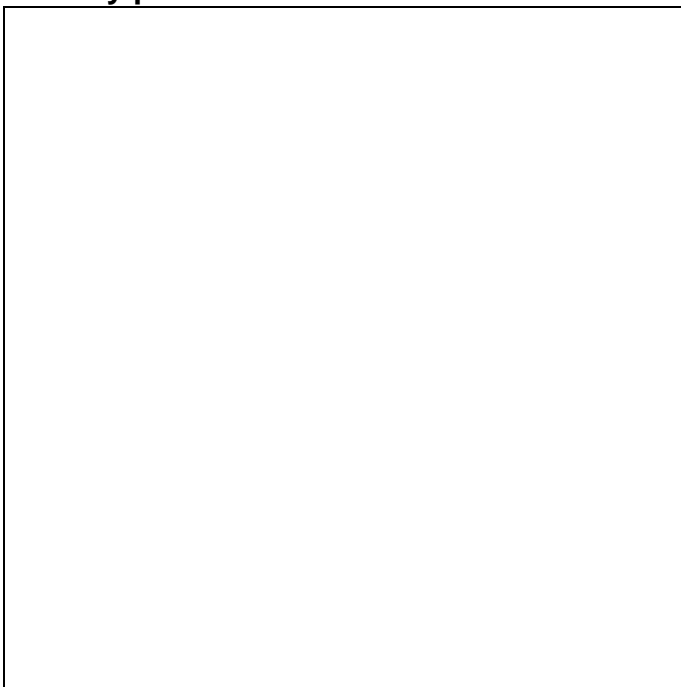
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18. What is the maturity value of a \$10,000 loan that is compounded annually at 9% for 3 years?

19. What is 75% of 1025?

20. 44 is what percent of 72?

21. Create a diagram showing the probabilities of having sunny or rainy days in a three-day period.



What is the probability of having three sunny days in a row?

What is the probability of having two raining or two sunny days in a row out of the three days observed?

What is the probability of having only one sunny day in a row?