Name: _____

Date: _____ Grade: _____

SECTION QUIZ 5-3



Remember:
Score an 85% or higher on all three quizzes and you may be exempt from the chapter test!



Congratulations! You have completed this section!
Answer the following questions to test your understanding of the material. When you are finished, hand in your quiz to your teacher. Each answer is worth 2.17 points.

1. A(n) _____ is an inexact, educated guess that helps you get an idea of what the answer or result will be.

2. Numbers can be _____ to make estimations.

3. The more digits that are used to make an estimate the more _____ the estimate.

4. In mathematics you can sometimes _____ numbers together to make the estimation easier to calculate.

5. You can estimate the average of a list of numbers by first calculating the _____.

6. You then _____ the answer by the number of numbers added.

7. A period of time at which a loan is due and payable is called the _____.

8. The amount of money remaining to be paid is called the _____.

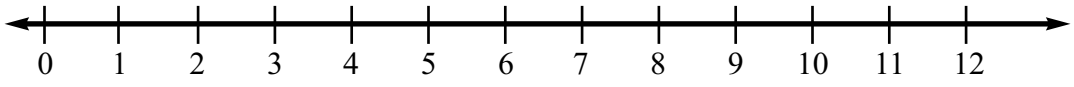
9. The actual amount of a loan is the _____.

10. The amount of money charged for the privilege of borrowing is called the rate of _____.

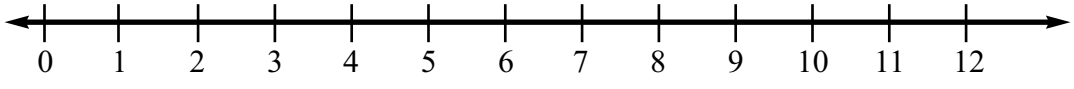
11. The unit of temperature in the English System with 180 equal divisions between the freezing point and the boiling point is degrees _____.

12. The normal unit of temperature in the Metric System with 100 equal divisions between the freezing point and boiling point of water is degrees _____.

13. Estimate the value of $\sqrt{7}$ and show the value on the number line.



14. Estimate the value of $\sqrt{31}$ and show the value on the number line.



15. Professor K believes that a good estimate for $\sqrt{82}$ is one of the following numbers. Choose the best estimate. _____

(a) 9 (b) 10 (c) 9.5 (d) none of answers

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16. Estimate the sum of the following list of numbers: 54, 46, 37, 63, 20, 10, 30, 40.

_____

17. Estimate the sum of the following list of numbers: 510, 246, 127, 363, 270, 100, 310, 240.

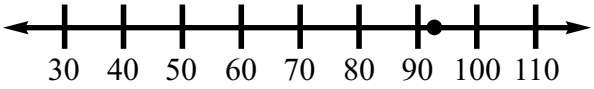
_____

18. Professor K left for his vacation last week. The first day he drove 25 miles to the airport. Professor K then flew 1,925 miles. The second day Professor K rented a car and drove 135 miles. The third day Professor K retraced his path and returned home. Estimate how many miles Professor K traveled on his vacation. _____

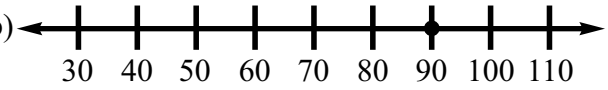
(a) 3,500 (b) 4,200 (c) 5,000 (d) 5,300

19. Which graph below is the best estimate of the sum of the following numbers? 4, 5, 39, 5, 12, 6, 9, 13 _____

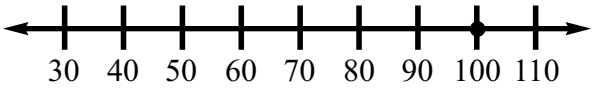
(a)



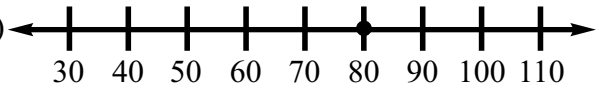
(b)



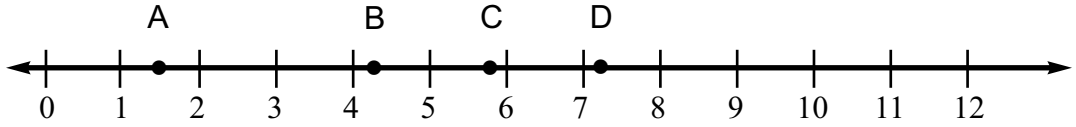
(c)



(d)



20. By your best estimation determine which dot on the following number line is the best representation of $\sqrt{18.5}$. _____



Work the following estimation problems.

21. Estimate the sum of the following by rounding to the *tens* place: 36, 44, 40, 53, 26, 35, 55.

_____

22. Choose the closest estimate of the sum of the following group of numbers by rounding the numbers to the hundreds place. {7,549, 2,421, 5,632} _____

(a) 15,400 (b) 15,000 (c) 14,000 (d) 14,500

23. Choose the closest estimate of the sum of the following group of numbers.

{50,000, 47,500, 22,000, 37,000} _____

(a) 150,000 (b) 157,000 (c) 140,000 (d) 145,000

24. The simple interest formula is _____.

(a) $P = irt$ (b) $T = pri$ (c) $I = prt$ (d) $R = ipt$

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25. 6% = _____.

26. $I = 10{,}000 \bullet .06 \bullet .5 =$ _____.

27. The principal in #26 is _____.

28. The rate in #26 is _____.

29. The time in #26 is _____.

30. $I = 20000 \bullet .05 \bullet 1.5 =$ _____.

Calculate the interest in the following problems (#31-34) using the simple interest formula. Show your work and write your answers on the blanks.

31. Johnny borrowed $2,000.00 from his sister to purchase a used car. His sister charged him 5% interest. Johnny paid the loan back in three months. Calculate how much interest Johnny paid his sister. $I =$ _____

(a) $300.00 (b) $100.00 (c) $25.00 (d) $8.33

32. Ramon wanted to remodel his house. The contractor gave Ramon a cost estimate of $25,000.00 for the remodeling job. Calculate the amount of interest Ramon would owe at the end of 6 months at a 5% rate of interest. $I =$ _____

33. $I =$ _____ : $P = \$12{,}000.00$; $r = 3\%$; $t = 6$ months.

34. $I =$ _____: $P = \$36{,}000.00$; $r = 8\%$; $t = 18$ months.

35. The formula for converting Fahrenheit temperatures into degree Celsius is $C =$ _____.

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SECTION QUIZ 5-3

Work the following problems converting Fahrenheit units of temperature into Celsius units of temperature. Set up the conversions in the space provided and write the answer on the blank.

36. 14°*F* = _____ *C*.

37. Convert 41°*F* into degrees Celsius. _____ *C*

38. If the surface temperature of the Moon during the daytime is estimated to be 200°*F*, convert the estimated temperature of the surface of the Moon during the daytime into degrees Celsius. _____

(a) 128.9°*C* (b) 93.3°*C* (c) 302.4°*C* (d) 100°*C*

Work the following conversions for temperature using your calculator. Set the problem up in the space provided and write the answer on the blank.

39. -25°*C* = _____ *F*.

40. 50°*C* = _____ *F*

41. 0°*C* = _____ *F*

(a) 20°*F* (b) 10°*F* (c) 32°*F* (d) 25°*F*

Match the following.

42. _____ *"Estimations of a person's worth*

43. _____ *"Make sure you invest your life*

44. _____ *"A friend in need*

45. _____ *"To have a friend,*

46. _____ *"It is a good thing to estimate*

(a) *the goodness of others."*

(b) *you must be a friend."*

(c) *in a noble cause . . ."*

(d) *are formed on the basis of appearance and behavior."*

(e) *is a friend indeed."*

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