6th grade Fall Midterm Review

1. List the decimals 0.25, 0.35, 0.23, 0.04, 0.02 from greatest to least.

   Round each decimal to the indicated place value.

2. 14.7564 ; hundredths

3. 16.9472 ; tenths

4. 2.6332 ; thousandths

5. Mark was collecting money for a fundraiser. He collected thirty-two and four hundredths dollars. How would this be written in standard form? _____

6. Alex orders one ham sandwich for $4.25 and a large orange juice for $1.95. About how much is his meal? _____

7. Tania is making a doll house for her sister. One piece of wood is 11.5 inches long. If she uses 6.75 inches for the window sill, how much does she have left for the welcome sign? _____

8. At the gymnastics tournament, Patty scored 38.387 points on the vault. Susan scored 38.41 points. Who scored the most points or did they score the same? _____

9. What is the decimal for twenty-three hundredths?

10. Find the sum 0.46 + 0.58 + 0.05.

11. You have a $10 bill and want to go to the movies for $5.50, buy popcorn for $2.45, and a drink for $1.95. How much change will you get?

12. Circle the numbers that are factors of 336
    2   3   4   5   6   9   10

13. Which is the prime factorization of 81?

14. Find the Greatest Common Factor of 36 and 48.

15. What is the GFC of 255 and 170?

16. May had 30 oranges, 12 pears, and 18 peaches. She wants to put all the fruit in to baskets. Each basket must have the same number of pieces of fruit. Without mixing fruits, what is the greatest number of pieces of fruit May can put in each basket?_____

17. Find the Least Common Multiple of 10, 8 and 5.

18. Omar is planting trees. He has enough trees to plant 6, 5, and 3 trees in each row. What is the least number of trees Omar can have?_

19. Write 35/60 in simplest form.

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20. Write $\frac{15}{8}$, $1\frac{2}{3}$, $1\frac{1}{5}$ in order from least to greatest.

21. Write 0.375 as a fraction in simplest form.

22. Add $\frac{2}{3}$ + $\frac{1}{8}$. Write in simplest form.

23. Your mom says you and your three friends can have half the pie on the counter. What portion of the pie will each of you get if the portions are all equal?

24. Mrs. Sanford collected money from her students for tickets to the school Play. She recorded the amounts of money collected in the table below. What is the most a ticket could cost per student?_____

Day	Amount
Monday	$18
Tuesday	$12
Wednesday	$24
Thursday	$30

Find the missing number to make the fractions equivalent.

25. $\frac{4}{5} = \frac{?}{35}$

26. $\frac{6}{?} = \frac{54}{81}$

27. 4 of the 42 teachers on the staff at Odell Grade School are male. Write this fraction in simplest form.

28. The measurement of a board being used in a carpentry project is $\frac{45}{8}$ feet. Express this as a mixed number.

29. A bread recipe calls for $4\frac{4}{5}$ cup of flour. Write this as an improper fraction.

30. The diagram shows the length of the cat. What is the length expressed as a fraction in lowest terms?

9.35

31. $\left(\frac{1}{4} + 2\frac{6}{8}\right) \cdot 9 - 4^2$

32. Michelle is going to paint three different rooms. She will need $2\frac{1}{2}$ gallons of paint for the first room, $4\frac{1}{3}$ paint for the second room, and $3\frac{1}{4}$ gallon for the third room. How much paint does Michelle need for all three rooms?

33. Jason has $11\frac{1}{8}$ feet of lumber. His neighbor came over and asked if he could use a piece of the wood to complete a ladder for his tree-house. When the lumber was cut, Johnny only had $6\frac{5}{6}$ feet of wood left. How much lumber did his neighbor need for the tree house?

34. Fernando made a drawing of his bedroom. The length of his drawing is $3\frac{3}{4}$ foot and the width is $\frac{1}{3}$ foot less than the length. What is the width of the drawing?

35. Jimmy painted 2 out of 5 windows before the sun went down. Write the decimal which represents the number of unpainted windows?

36. Use <, >, or = to compare the two expressions.

    $45 - 4(3+5)$ $5 + 5(5 + 5 \times 0)$

37. Alicia purchased $2\frac{3}{4}$ pounds of strawberries, $6\frac{11}{16}$ pounds of chocolate, and $4\frac{3}{8}$ pounds of sugar. If all three items were placed in the same bag, how heavy was the bag that Alicia carried to her car?

38. A recipe needs the following ingredients:

    $\frac{7}{8}$ orange juice

    $2\frac{1}{4}$ sparkling water

    $1\frac{2}{3}$ pineapple juice

    How much juice is used in this recipe?

39. $\frac{4}{5} + 0.9 =$

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40. Which statement is true? _____

    a. 2.94 > 2.9 > 2.8
    b. 5.796 < 5.802 < 5.656
    c. 8.55 < 9.111 < 9.229
    d. 5.796 > 5.802 < 9.111

41. Which is equivalent to 0.72? _____
    a. 36/25
    b. 19/25
    c. 18/25
    d. 72/10

42. Which decimal is greater than 21/25?
    _____
    e. 0.85
    f. 0.84
    g. 0.825

43. Which of the following statements is true?

A. $\frac{1}{2} > 0.75$

B. $\frac{3}{4} > 0.875$

C. $\frac{3}{8} < \frac{3}{4}$

D. $0.5 < \frac{1}{4}$

44. Lindsay planned to hike 4 ¼ miles along the nature trail. She hiked 1 2/3 miles before resting for ¾ hour. Then she hiked another 2 ¼ miles. Did Lindsay meet her goal? _____ Explain your answer.
_____
_____
_____
_____

45. Samantha keeps a record of her volunteer hours at the Mandy Ann senior citizens home.

Monday	$\frac{1}{8}$
Tuesday	0.56
Wednesday	0.78
Thursday	$\frac{4}{10}$

Which day did she work the most hours?

46. What is $\frac{1}{8}$ written as a decimal?

47. Ms. Hawkins plans to make a bulletin board by cutting strips of ribbon. She has $1\frac{2}{3}$ yards of green ribbon and $1\frac{5}{8}$ yards of red ribbon. Which of the procedures described below best explains how Ms. King might determine how much more green ribbon she has than red ribbon?

A. Find the common denominator for 3 and 8. Use the common denominator to rename the equivalent fractions for $1\frac{2}{3}$ and $1\frac{5}{8}$. Then subtract to find how much more green ribbon she has than red ribbon.

B. Find the common denominator for 3 and 8. Then subtract to find how much more green ribbon she has than red ribbon.

C. Find the common denominator for 3 and 8. Use the common denominator to rename the equivalent fractions for $1\frac{2}{3}$ and $1\frac{5}{8}$. Then add to find how much more green ribbon she has than red ribbon.

D. Subtract the numerator and denominators to find how much more green ribbon than red ribbon.

48. Find the value of 58-2x3+1

49. Find the value of $5^2 \cdot 3$-2

50. Evaluate 20-8÷4

51. Evaluate 51 – 2x13+14

52. Subtract 8 - $2\frac{3}{4}$

53. Which of the following expressions has a greater value? Circle one or write equal.

   Expression A: $36 \div 4 - 2 \times 3$
   Expression B: $36 \div (4 - 2) \times 3$

56. Identify which expression has a value equal to the following expression.
$$25 - 2(3 + 6) + 1$$

   a. $30 - 10 \div 2 \cdot 5$
   b. $36 - 18 \div 2 + 8$
   c. $42 - (3 \cdot 4) + 6$
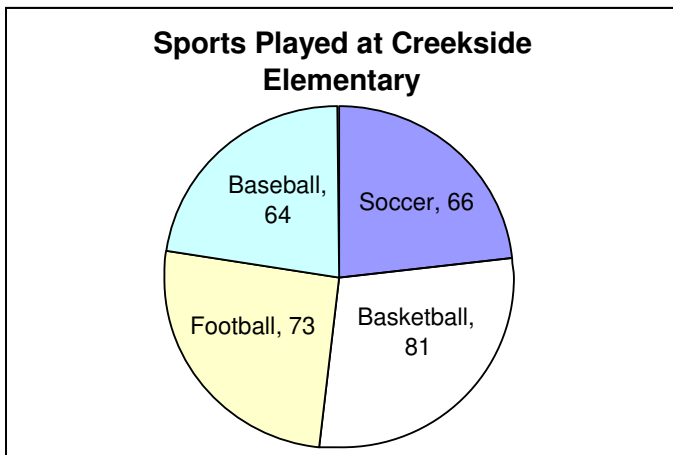   d. $3 + 25 \div 5$

57. Mrs. Matthews and her family went to movie. She bought 3 student tickets for $4 each and 2 adult tickets for $6 each. Which of the following expressions could be used to calculate the total cost for the movie?

55. Adam claims that a *line graph* would be the most appropriate for displaying the data below. Do you agree? <u>Explain</u>.

Dairy	30%
Seafood	21%
Vegetables	18%
Fruits	20%
Chocolate	11%

54. How many more cloudy days did February have than the total number of days in January and May combined?

Cloudy Days

58. Use the circle graph below to find out how many children are **not** playing baseball.

Sports Played at Creekside Elementary

- Baseball, 64
- Soccer, 66
- Football, 73
- Basketball, 81

59. The graph below shows the cost to rent a car. Ann Marie can spend no more than $150 on a rental car. Use the graph to determine how many full days Ann Marie can rent a car.

Rental Car Costs

Cost vs Days
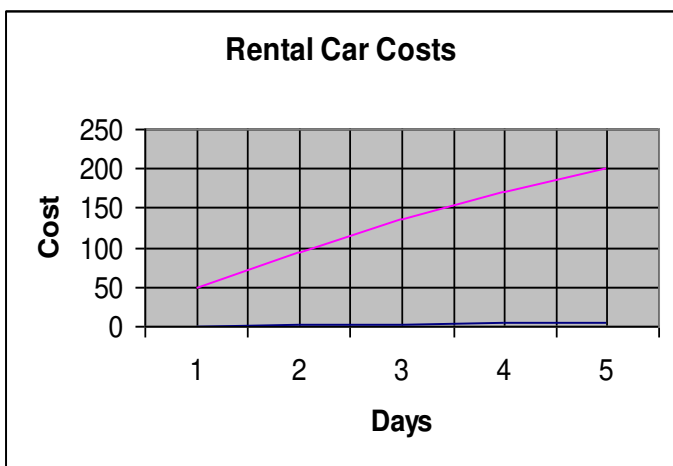
60. Construct a graph showing the amount of money Roberto made over a four week period of time.

Week	Amount of money earned
1	$10.00
2	$9.00
3	$15.00
4	$12.00

61. Display the following set of data in a Stem and Leaf plot:

47	28	78	47	58	93
34	76	35	72	45	53
23	43	75	27	23	87
33	43	25	35	49	35

Identify the mode of the set of numbers from the above Stem and Leaf plot.

_____

62. Use the graph to find out how many more books Mr. Jackson's class read than Ms. Roberts' class.

Number of Books Read by 6th Grade

Number of books by Teachers (Harrison, Roberts, McCally, Jackson)
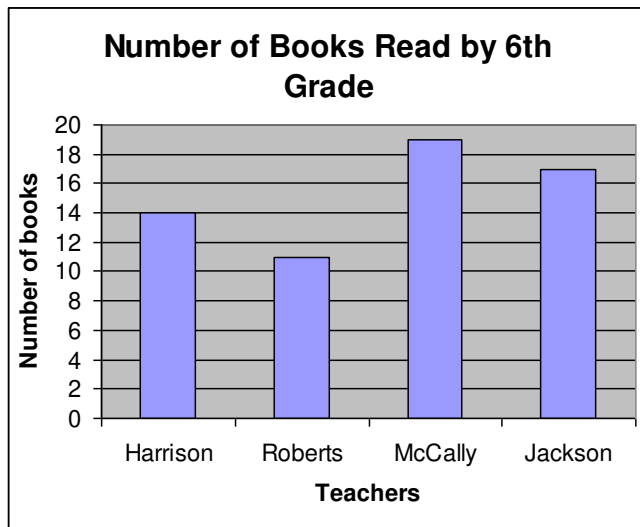
63. The students' scores on a math test are shown on the following frequency table:

Score	16	17	18	19	20	21	22	23	24
Number of Students	1	4	1	3	4	3	3	4	2

How many students scored above 20?
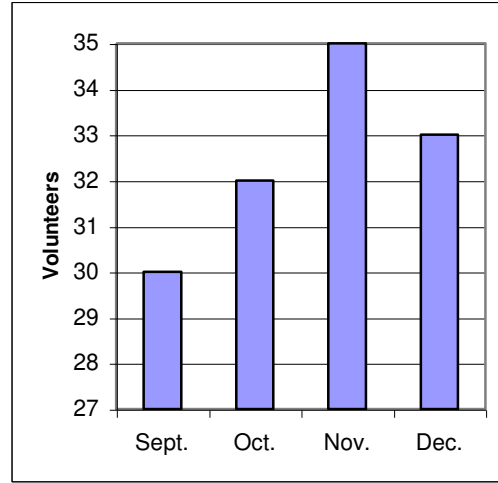
64. Which graph below suggests that the number of helpers for the monthly fund-raisers decreased dramatically from September to October?
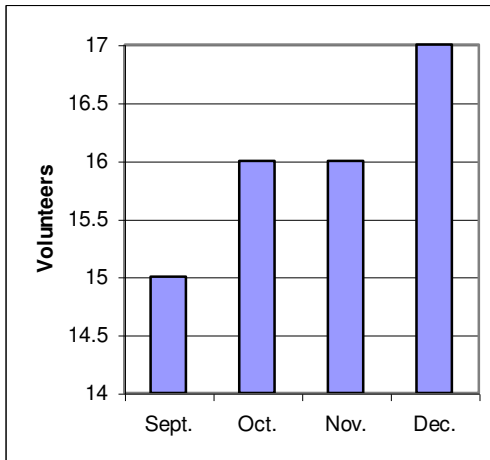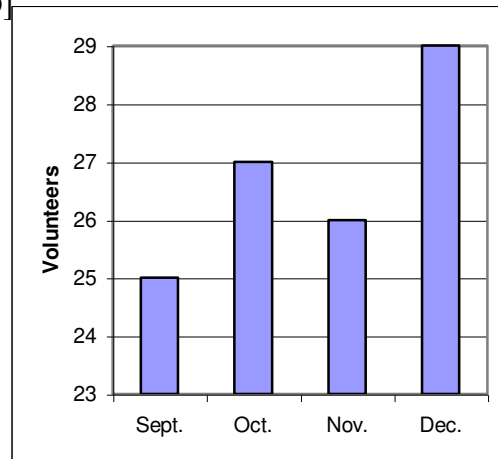
[A]
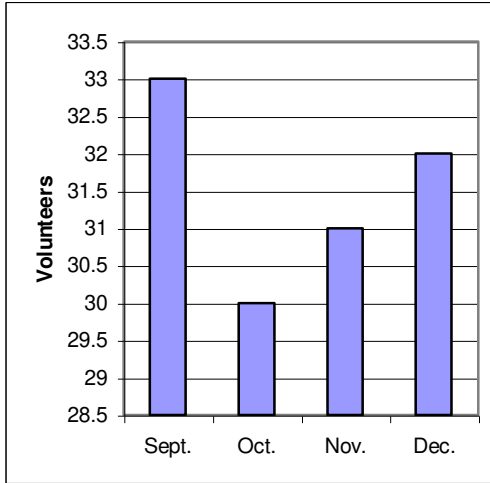
[B]

[C]

[D]

65. What is the median of the number of concerts?

66. What is the range of the years they performed?

Q&R Band Performances

Year	Number of Concerts
1992	168
1993	172
1994	142
1995	180
1996	162
1997	162
1998	180
1999	180
2000	168
2001	172

67. The table shows the gross income of 5 of the highest-grossing U.S. movies from 1982 to 1996.

Highest-Grossing Movies

Movie	Gross Income (millions of dollars)
I	399.8
II	329.7
III	285.0
IV	306.2
V	356.8

Which graph most accurately displays the information in the table?

A

Highest-Grossing Movies

B

Highest-Grossing Movies

C

Highest-Grossing Movies

D

Highest-Grossing Movies