Mathematics 6 Summer Review

(Show all work – use additional paper if needed)

Find the sum or difference in simplest form:

1. $3.72 + 1.59$
2. $7.5 + 7.143$
3. $\frac{5}{6} + \frac{1}{8}$
4. $\frac{1}{12} + \frac{5}{9}$
5. $5\frac{2}{9} + 1\frac{1}{6}$
6. $5\frac{6}{7} + \frac{4}{7}$
7. $13.55 - 3.56$
8. $15.97 - 2.48$
9. $4\frac{3}{4} - 1\frac{2}{3}$
10. $\frac{5}{6} - \frac{3}{8}$
11. $2\frac{8}{13} - 1\frac{3}{5}$
12. $7\frac{3}{4} - 1\frac{3}{14}$

Solve the following:

13. Kelvin's math book weighs 4.52 pounds. His science book weighs 3.86 pounds. How much do Kelvin's math and science books weigh altogether?
14. Stephanie played soccer for 2.25 hours before lunch. She played again in the afternoon for 1.5 hours. How long did Stephanie play soccer altogether?
15. The average precipitation in Calera during the month of March is 6.23 inches. The average precipitation during the month of October is 2.37 inches. How much greater is the average precipitation in Calera during March than during October?
16. Last year, Haden had $54.28 in his savings account. This year, he has $78.60 in his savings account. How much more does Haden have in his savings account this year than last year?
17. Shelia has an art class for $1\frac{1}{3}$ hours every Wednesday. She was late to class last Wednesday and was in class for $\frac{5}{6}$ of an hour. How late was she to the art class?
18. At Ken's Pet Palace, $\frac{3}{16}$ of the animals are dogs and $\frac{5}{24}$ of the animals are cats. What fraction of the animals are neither dogs nor cats?
19. At a school concert, Haden played saxophone for $2\frac{2}{3}$ hours, Brooke sang for $1\frac{3}{4}$ hours, Donnie played saxophone for $1\frac{1}{4}$ hours, and Taylor sang for $2\frac{3}{8}$ hours. Who has more time, the saxophone players or the singers? How much more?
20. Darius bought $2\frac{3}{4}$ pounds of broccoli, $1\frac{1}{2}$ pounds of spinach, and $\frac{7}{8}$ pound of carrots. He also bought $2\frac{1}{2}$ pounds of apples and $2\frac{3}{8}$ pounds of oranges. Did he buy more fruit or more vegetables? How much more did he buy?

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Find the product or quotient in simplest form: (Remember that ( ), *, x indicate that you should multiply)

21. 7.91(3.8)

22. 0.62 * 0.4

23. $\frac{8}{9} * \frac{3}{5}$

24. $1\frac{1}{12}(4\frac{5}{9})$

25. $\frac{9}{10} * 1\frac{7}{12}$

26. $5\frac{6}{7} * \frac{4}{7}$

27. 0.56 ÷ 0.

28. 19.5 ÷ 5

29. $3\frac{4}{7} \div 3\frac{1}{2}$

30. $\frac{2}{9} \div \frac{4}{15}$

31. $\frac{3}{4} \div 2\frac{1}{6}$

32. $1\frac{1}{8} \div \frac{3}{4}$

Solve the following:

33. Jasmine bought 2.5 pounds of hamburger. The hamburger cost $3.19 per pound. How much did Jasmine pay for the hamburger?

34. Cody bought 5 t-shirts for $9.99 each. How much did Cody spend on t-shirts?

35. Alan spent $12.72 on 8 notebooks. How much did each notebook cost?

36. Shelia spent $\frac{1}{3}$ of her allowance at the mall. Of the money she spent at the mall, she spent $\frac{3}{5}$ of it on jewelry. What fraction of her allowance did Shelia spend on jewelry?

37. Jason has $\frac{1}{4}$ of his birthday cake left. He is going to divide the leftovers into 4 equal pieces. What fraction of the whole cake will each piece be?

38. It takes Brian $\frac{1}{20}$ of an hour to read one page in his book. How many pages can Riley read in $\frac{3}{4}$ of an hour?

39. Mrs. Cabanis bought 8 pounds of ham for $18.88. Find the unit price for the ham.

40. David bought 20 tickets for $78. Find the unit rate for the tickets.

41. Melanie can read 15 pages in 20 minutes. At this rate, how long will it take Melanie to read 180 pages?

42. Find the rule for this pattern. Then, fill in the next three terms of the pattern.

    12, 13, 15, 18, 22, _____, _____, _____

43. What is the 9^{th} term in the following sequence?

    3, 6, 12, 24, ...

44. Camilla worked 71 hours in July. How many minutes did Camilla work in July?

45. Write 39% in fractional form.

46. The Murphy versus McGill football game lasted for 2 hours and 36 minutes. If the game started at 7:05 p.m., what time did the game end?

47. Change $9\frac{3}{4}$ to an improper fraction.

48. Write $\frac{25}{3}$ as a mixed number.

49. Write 62% in decimal form.

50. List the prime numbers less than 50.

51. Round 6,630,000 to the nearest million.

52. Round 41.464 to the nearest tenth.

53. Find the perimeter of a rectangle with a width of 15 centimeters and a length of 35 centimeters.

54. Name all the divisors of 276.

55. What fraction of the letters in the word **"multiply"** are vowels?

56. Anna needs to cut a board into two 3.5 foot pieces. She starts with an 11 foot board. How much of the board will she have left after she cuts the board?

57. If there are 25 employees at Chick-fil-A and each employee can serve 150 customers a day, estimate about how many customers all the employee serve in a 30-day month.

58. What is the perimeter of a square with a side length of 5 meters?

59. Read the descriptions below of polygons. Name the polygon that is being described.
    a. 8 sides and 8 angles
    b. 4 equal sides and 4 right angles
    c. 6 sides and 6 angles
    d. 4 sides with only one set of parallel sides

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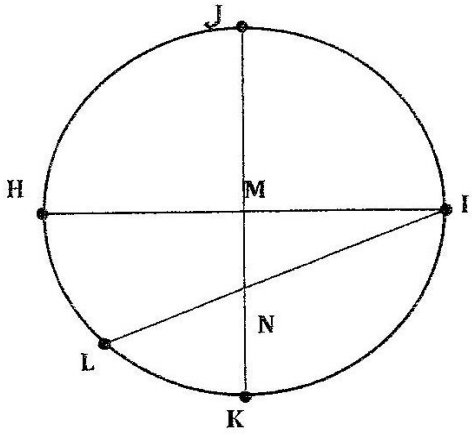
60. A bag contains 3 purple, 4 green, 4 blue, and 4 white marbles. What fraction of the marbles in the bag are purple? Write as a fraction in simplest form.

61. Find the area of a square with each side 35 millimeters.

62. Use the circle below to answer a, b, and c below.



a. Name one diameter on the circle.
b. Name one radius on the circle.
c. Name a chord on the circle that is not a diameter.

Find the coordinates of each point.

63. S

64. U

65. W

66. Y

67. T

68. V

69. X

70. Z