

7th grade Math - Summer Assignment

Attached is your math summer assignment packet that is to be completed and turned in to your math teacher on the first full day of school.

All problems are to be completed on separate lined loose-leaf paper, numbered in numerical order. Place a box around your final answers and show **ALL** your work. All answers are then to be transferred to the attached answer sheet as well. Please do NOT use calculators, show your calculations on your paper.

This assignment will be graded upon your return to school and you will be tested within the first two weeks on all the material in the packet.

Have a wonderful summer and happy calculating!

Name: _____

SHOW ALL YOUR WORK on a separate sheet of paper, in number order. Write your answer on the answer key unless you need to graph.

7th Grade Math Summer Packet

Round the number to the place value of the underlined digit.

1. $\underline{2}39$
2. $14\underline{8}7$
3. $74\underline{0},692$
4. $63,\underline{4}63$
5. $16.\underline{1}39$
6. $28\underline{4}.19$
7. $758.\underline{9}\underline{2}9$
8. $0.\underline{1}428$

Write the mixed number as an improper fraction.

9. $2\frac{2}{3}$
10. $21\frac{14}{15}$

Write the improper fraction as a mixed number.

11. $\frac{12}{5}$
12. $\frac{19}{2}$
13. $\frac{143}{9}$

SHOW ALL WORK on a separate paper, in number order.

14. Find the sum. Simplify if possible.

$$\frac{5}{7} + \frac{6}{7}$$

15. Find the sum. Simplify if possible.

$$\frac{8}{13} + \frac{3}{13}$$

16. Find the difference. Simplify if possible.

$$\frac{10}{17} - \frac{2}{17}$$

17. Find the difference. Simplify if possible.

$$\frac{19}{21} - \frac{12}{21}$$

Find the sum or difference. Simplify if possible.

18. $\frac{1}{4} + \frac{3}{8} - \frac{1}{3}$

19. $2\frac{2}{3} - 1\frac{7}{8}$

Find the product. Simplify if possible.

20. $10 \times \frac{1}{2}$

21. $\frac{11}{13} \times \frac{5}{11}$

22. $\frac{2}{9} \times \frac{6}{13}$

SHOW ALL WORK on a separate paper, in number order.

23. $3 \times \frac{4}{3}$

Find the quotient. Simplify if possible.

24. $\frac{3}{40} \div \frac{1}{8}$

25. Write the reciprocal of $\frac{1}{13}$.

Tell whether the number is *prime* or *composite*.

26. 63

27. 71

Write the prime factorization of the number.

28. 126

29. **Find the sum.**

$$9.27 + 3.64$$

30. **Find the sum.**

$$2.938 + 3.215$$

31. **Find the difference.**

$$10.29 - 5.57$$

32. **Find the difference.**

$$56.123 - 37.975$$

Find the product.

33.
$$\begin{array}{r} 1.6 \\ \times 13 \\ \hline \end{array}$$

SHOW ALL WORK on a separate paper, in number order.

34.
$$\begin{array}{r} 532 \\ \times 6.05 \\ \hline \end{array}$$

35.
$$\begin{array}{r} 2.913 \\ \times 53 \\ \hline \end{array}$$

36.
$$\begin{array}{r} 39.046 \\ \times 121 \\ \hline \end{array}$$

Find the quotient.

37. $10.2 \div 3$

38. $31 \div 6.2$

39. $78 \div 2.13$

40. $86.91 \div 15$

The table shows the number of pets each student in Mrs. Stewart's class own. Use the table to write the specified ratio.

	Dogs	Cats	Snakes
Girls	6	9	1
Boys	13	4	3

41. Dogs owned by girls to the dogs owned by boys

42. Cats owned by girls to the dogs and cats owned by girls

43. Dogs owned by boys to the dogs and cats owned by boys

44. Snakes owned by boys and girls to all the pets owned by boys and girls

SHOW ALL WORK on a separate paper, in number order.

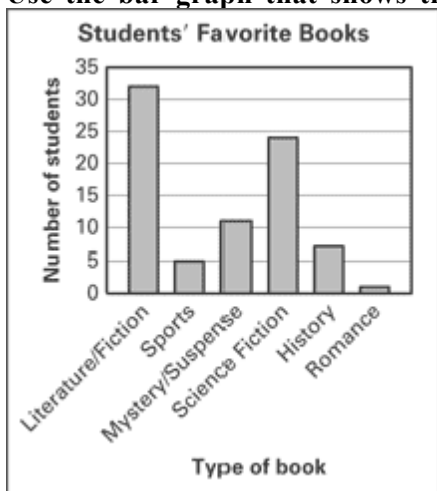
Copy and complete the statement. Show all work.

45. $8503 \text{ g} = \underline{\quad? \quad} \text{ kg}$

46. $3.42 \text{ kg} = \underline{\quad? \quad} \text{ mg}$

47. Your class is selling tickets for the school play. On Wednesday, your class sold 57 tickets. On Thursday, 65 tickets were sold. On Friday, the class sold 113 tickets. How many tickets were sold on these three days?
48. You buy a DVD movie for \$17.38 and you paid with a \$20.00 bill. How much change should you receive?
49. You mailed 19 postcards and the stamps cost \$.23 each. How much did you pay for the postage?
50. You bought 7 packs of trading cards for \$37.03. How much did you pay for each pack of trading cards?
51. Between which two years was the change the greatest? The least?

Use the bar graph that shows the survey results for students' favorite types of books to read.



52. How many students chose science fiction as their favorite type of book?
53. What is the most popular type of book? What is the least popular type of book?
54. Estimate the total number of students who chose sports books and history books.

SHOW ALL WORK on a seperate paper, in number order.

- _____ 58. Mike was in charge of collecting contributions for the Food Bank. He received contributions of \$13, \$34, \$26, \$31, and \$28 from five co-workers. Find the median value of these contributions.
- a. \$31 c. \$26
b. \$28 d. \$30

59. Find the mode of the data set.

11, 19, 16, 12, 19, 16, 11, 12, 16, 13

- [illegible]

60. Thirteen bowlers were asked what their score was on their last game. The scores are shown below.

190, 150, 154, 194, 182, 190, 170, 151, 190, 170, 178, 161, 180

Find the range of the bowlers' scores.

- a. 56 c. 34
b. 44 d. 23

- ____ 61. A group of friends tested themselves to see how many times each person could hit a tennis ball against the wall without missing. The results are below:

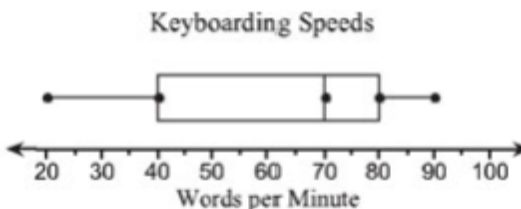
7 15 28 8 21 30 30 10

22 4 17 7 17 22 10 8

Find the range of the data set.

- a. 26
b. 16
- c. 36
d. 23

62. Use the box plot to answer the following question.



How many words do the fastest 50% of keyboarders type per minute?

- a. between 20 and 80 words per minute c. between 40 and 90 words per minute
b. between 40 and 70 words per minute d. between 70 and 90 words per minute

- _____ 63. $\frac{3}{14}$ of $\frac{10}{9}$

- a. $\frac{15}{42}$ c. $\frac{2}{7}$
 b. $\frac{5}{21}$ d. $\frac{5}{6}$

SHOW ALL WORK on a seperate paper, in number order.

_____ 64. $\frac{1}{10} \times \frac{3}{4}$

a. $\frac{15}{2}$

b. $\frac{2}{15}$

c. $\frac{3}{40}$

d. $\frac{40}{3}$

_____ 65. $\frac{1}{3}$ of 3

a. $\frac{1}{18}$

b. $\frac{1}{3}$

c. 1

d. $\frac{1}{9}$

_____ 66. $8\frac{5}{6} = 2\frac{1}{3}$

a. 18

b. 27

c. 10

d. 16

_____ 67. $5\frac{1}{3} \times 11\frac{3}{5}$

a. 65

b. 50

c. 55

d. 60

_____ 68. $2\frac{1}{2} \times 1\frac{1}{2}$

a. $2\frac{1}{4}$

b. 2

c. $3\frac{3}{4}$

d. 4

_____ 69. $8\frac{2}{5} \times 5\frac{1}{2}$

a. $40\frac{1}{5}$

b. $40\frac{1}{5}$

c. 40

d. $40\frac{2}{5}$

_____ 70. Find the reciprocal of $\frac{9}{11}$.

a. 9

b. 11

c. $\frac{2}{11}$

d. $\frac{11}{9}$

SHOW ALL WORK on a seperate paper, in number order.

_____ 71. $6 \div \frac{1}{5}$

a. $1\frac{1}{5}$

b. $\frac{1}{5}$

c. $\frac{5}{36}$

d. 30

_____ 72. $\frac{4}{7} \div \frac{7}{8}$

a. $\frac{1}{2}$

b. $\frac{32}{49}$

c. 2

d. $1\frac{17}{32}$

_____ 73. $\frac{5}{28} \div \frac{1}{7}$

a. $1\frac{1}{4}$

b. $\frac{4}{5}$

c. $\frac{5}{196}$

d. $\frac{4}{21}$

_____ 74. $6\frac{2}{7} + 2\frac{3}{4}$

a. $2\frac{2}{7}$

b. $17\frac{2}{7}$

c. $2\frac{6}{11}$

d. $\frac{7}{16}$

_____ 75. $2\frac{1}{2} + 4$

a. $\frac{5}{8}$

b. $\frac{1}{10}$

c. 10

d. $1\frac{3}{5}$

7th Grade Math Summer Packet
Answer Section

1. 200
2. 1490
3. 741,000
4. 63,500
5. 16.1
6. 284
7. 758.93
8. 0.1
9. $\frac{8}{3}$
10. $\frac{329}{15}$
11. $2\frac{2}{5}$
12. $9\frac{1}{2}$
13. $15\frac{8}{9}$
14. $1\frac{4}{7}$
15. $\frac{11}{13}$
16. $\frac{8}{17}$
17. $\frac{1}{3}$
18. $\frac{7}{24}$
19. $\frac{19}{24}$
20. 5
21. $\frac{5}{13}$
22. $\frac{4}{39}$

23. 4
24. $\frac{3}{5}$
25. 13
26. composite
27. prime
28. $2 \times 3^2 \times 7$
29. 12.91
30. 6.153
31. 4.72
32. 18.148
33. 20.8
34. 3218.6
35. 154.389
36. 4724.566
37. 3.4
38. 5
39. 36.62
40. 5.794
41. 6 to 13
42. 9 to 15
43. 13 to 17
44. 4 to 36
45. 8.503
46. 3,420,000 mg
47. 235 tickets
48. \$2.62
49. \$4.37
50. \$5.29
51. greatest change: between 1994 and 1995; least change: between 2000 and 2001
52. about 24 students
53. Literature/fiction; Romance
54. about 12 students
55. A
56. A
57. A
58. B
59. D
60. B
61. A
62. D
63. B
64. C
65. C
66. A

- 67. D
- 68. C
- 69. A
- 70. D
- 71. D
- 72. B
- 73. A
- 74. A
- 75. A

Our Lady of Lourdes Parish School
7th Grade Regular Math - Answer Sheet

Student Name: _____

1.	21.
2.	22.
3.	23.
4.	24.
5.	25.
6.	26.
7.	27.
8.	28.
9.	29.
10.	30.
11.	31.
12.	32.
13.	33.
14.	34.
15.	35.
16.	36.
17.	37.
18.	38.
19.	39.
20.	40.

Our Lady of Lourdes Parish School
7th Grade Regular Math - Answer Sheet

41.	61.
42.	62.
43.	63.
44.	64.
45.	61.
46.	62.
47.	63.
48.	64.
49.	65.
50.	66.
51.	67.
52.	68.
53.	69.
54.	70.
55.	71.
56.	72.
57.	73.
58.	74.
59.	75.
60.	