



## SAINT JAMES ELEMENTARY SCHOOL

### Summer Math Packet for Students Entering Sixth Grade

Name \_\_\_\_\_ (NO calculators)

Show work on loose leaf paper and attach to packet.

#### I. Add

1.  $2.34 + .02 + 1.65$

2.  $22.87 + 45.7 + 1.26$

3.  $.605 + 1.70 + 23.75$

#### II. Subtract

4.  $23.154 - 3.08$

5.  $.65 - .224$

6.  $2.3 - 1.437$

#### III. Multiply

7.  $.256 \times 1.3$

8.  $9.42 \times 3.3$

9.  $.121 \times 110$

10.  $43.7 \times 12.5$

#### IV. Divide

11.  $3.2 \div 4$

12.  $25.2 \div 4$



13.  $30.30 \div 15$

14.  $15.55 \div .5$

15.  $38.25 \div 5.1$

**V. Use Order of Operations to Solve**

16.  $17 - 4 + 8 \times 4$

17.  $28 \div 7 \times 5 \div 5$

**VI. Add All answers in simplest form**

18.  $5 \frac{8}{15} + 2 \frac{11}{15}$

19.  $9 \frac{5}{6} + 7 \frac{1}{9}$

20.  $7 \frac{3}{8} + 4 \frac{2}{3}$

**VII. Subtract All answers in simplest form**

21.  $6 \frac{4}{7} - 5 \frac{1}{7}$

22.  $12 \frac{1}{3} - 8 \frac{4}{9}$

23.  $8 \frac{15}{20} - 3 \frac{3}{5}$

**VIII. Multiply All answers in simplest form**

24.  $3 \frac{6}{7} \times \frac{7}{9}$

25.  $7 \frac{7}{8} \times 3 \frac{2}{7}$

26.  $12 \times \frac{9}{28}$

27.  $\frac{8}{9} \times 2 \frac{3}{4}$

28.  $\frac{5}{6} \times \frac{5}{7}$



**IX. Divide All answers in simplest form**

29.  $5 \frac{1}{4} \div 1 \frac{2}{5}$

30.  $\frac{5}{13} \div 15$

31.  $8 \div \frac{3}{8}$

32.  $35 \div \frac{14}{15}$

33.  $1 \frac{3}{5} \div \frac{1}{10}$

**X. Solve the following**

34.  $72 + (-10) = c$

35.  $d = 72 + 10$

36.  $-13 + (-11) = h$

37.  $f = -52 + 52$

38.  $-10 + 12 = z$

39.  $-4 + (-5) + 6 = m$

40.  $-8 + 8 + (-10) = a$

41.  $-85 - (-42) = z$

42.  $-16 - (-57) = c$

43.  $39 - 18 = x$

44.  $65 - 72 = y$

45.  $-21 - 24 = b$

46.  $6x - 8$



$$47. \quad (-7)(17) = x$$

$$48. \quad (10)(-8)(-2) = r$$

$$49. \quad (20)(-5)(-5) = y$$

$$50. \quad (-3)(3)(-10) = t$$

$$51. \quad (-9)(-11) = x$$

$$52. \quad 63 \div (-9) = y$$

$$53. \quad -21 \div (-7) = x$$

$$54. \quad -124 \div 4 = a$$

$$55. \quad 72 \div 8 = c$$

$$56. \quad -32 \div 4 = t$$

$$57. \quad -48/6 = y$$

**XI. Solve each expression if  $x = 5$  and  $y = 6$**

$$58. \quad 3y$$

$$59. \quad -8x$$

$$60. \quad 4xy$$

$$61. \quad -6xy$$

$$62. \quad 12x$$

$$63. \quad -15x$$

$$64. \quad -4y$$

$$65. \quad -19y$$



**XII. Complete the following table, write fractions in simplest form.**

	<b>Percent</b>	<b>Fraction</b>	<b>Decimal</b>
66.	7%		
67.	13%		
68.	48%		
69.	71%		
70.	27%		
71.	2%		
72.	15%		

**XIII. Solve each problem. Show all work**

73. Workers are using a piece of iron that is 0.324 millimeters thick and a piece of copper that is 0.671 millimeters thick. How much thicker is the copper?
74. Lenora bought a book for \$12.36 and some school supplies for \$7.29, and \$5.47. How much did she spend?
75. Joe's bill at the grocery store came to \$6.08. He paid with a ten dollar bill and a dime. How much change did he get?
76. One bottle holds 67.34 ounces and another bottle holds 48.5 ounces. Combined, how much do they hold?



77. A basic stereo system costs \$189.67. An upgraded model costs \$212.09. How much more does the upgraded model cost?
78. Lin ran 0.683 kilometers on Wednesday and 0.75 kilometers on Thursday. How far did he run on the two days combined?
79. A certain cabinet door is actually made of three thin boards that are pressed together. The boards are 0.371 inches, 0.13 inches, and 0.204 inches thick. How thick is the cabinet door?
80. David worked  $7\frac{1}{3}$  hours today and planted 11 trees. It takes him about the same amount of time to plant each tree. How long did it take him to plant each tree?
81. A car uses  $3\frac{1}{8}$  gallons of gasoline per hour when driving on the highway. How many gallons will it use after  $4\frac{2}{3}$  hours?
82. A board was  $24\frac{3}{8}$  inches long. A worker cut it into pieces that were  $4\frac{7}{8}$  inches long. The worker cut the board into how many pieces?
83. Susan must pour  $6\frac{1}{2}$  bottles of juice into 26 drink glasses for her party. If each glass gets the same amount of juice, what fraction of a bottle will each glass hold?
84. The standard size of a certain bin holds  $2\frac{2}{3}$  gallons. The large size of that bin  $1\frac{1}{4}$  times larger. How many gallons does the large bin hold?
85. Diana has  $3\frac{1}{4}$  bags of nuts. Each bag holds  $4\frac{1}{2}$  pounds. How many pounds of nuts does Diana have?
86. There is a stack of 7 crates. Each crate is  $10\frac{2}{3}$  inches high. How many inches high is the stack of crates?



**XIV. Write in exponential form**

87.  $5 \times 5 \times 5 \times 5$

88.  $10 \times 10 \times 10 \times 10 \times 10 \times 10$

89.  $6^0$

90.  $4^1$

**XV. Complete the sentence using the following:**

zero, denominator, integers, percent, absolute value, ratio, positive, prime, negative, numerator (#95 & #96 write what the letters stand for)

91. \_\_\_\_\_ are the whole numbers and their opposites.

92. The distance from zero on the number line is

\_\_\_\_\_.

93. \_\_\_\_\_ integers are  $<$  zero and \_\_\_\_\_ integers  $>$  zero.

94. A \_\_\_\_\_ number is a whole number greater than 1, that has exactly 2 factors: 1 & itself.

95. GCF stands for

\_\_\_\_\_.

96. LCM stands for

\_\_\_\_\_.

97. The top number in a fraction is the \_\_\_\_\_ & the bottom number is the \_\_\_\_\_.

98. A \_\_\_\_\_ is a way of comparing two numbers or quantities.

99. A ratio that compares a number to 100 is a \_\_\_\_\_.

100. \_\_\_\_\_ is neither positive or negative.