

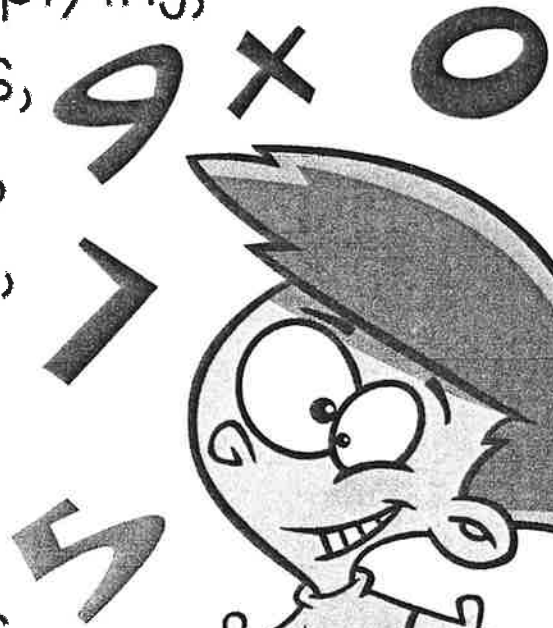
Name: \_\_\_\_\_

Summer Work

4<sup>th</sup>  
going into  
5<sup>th</sup>

# Grade Math Review Packet

Adding, Subtracting, Multiplying,  
& Dividing Whole Numbers,  
Rounding Whole Numbers,  
Greatest Common Factor,  
Least Common Multiple,  
Simplifying Fractions,  
Comparing Fractions,  
Geometric Figures,  
& Problem Solving



Math  
in the  
Middle

Find each sum or difference.

1. $89 + 74$	2. $627 + 913$	3. $723 + 11$
4. $2,354 + 3,728$	5. $1,925 + 89$	6. $7,627 + 836$
7. $53 - 31$	8. $682 - 426$	9. $844 - 79$
10. $2,365 - 1,299$	11. $3,014 - 45$	12. $5,200 - 845$

Round the number 245,382 to the nearest given place value.

13. hundred	14. ten-thousand	15. thousand	16. ten
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Find each product.

17. $24 \times 7$	18. $96 \times 3$	19. $57 \times 2$
20. $845 \times 5$	21. $910 \times 8$	22. $341 \times 6$
23. $1,387 \times 4$	24. $8,452 \times 9$	25. $5,023 \times 8$
26. $34 \times 21$	27. $84 \times 13$	28. $95 \times 64$
29. $32 \times 20$	30. $67 \times 89$	31. $72 \times 44$

Find each quotient. Check your answers using multiplication.

32.  $95 \div 6$

33.  $58 \div 2$

34.  $86 \div 3$

35.  $232 \div 4$

36.  $512 \div 7$

37.  $203 \div 8$

38.  $625 \div 5$

39.  $442 \div 9$

40.  $102 \div 3$

41.  $2,304 \div 6$

42.  $1,832 \div 7$

43.  $9,203 \div 8$

## Greatest Common Factor

Factors are numbers that can be multiplied together to equal a given number.

To find the greatest common factor (GCF) of 2 or more numbers:

1. List all the factors of each number.
2. Find the largest number that is a factor of each number.

ex: find the GCF of  
12 & 15

$$12 = 1 \times 12, 2 \times 6, 3 \times 4$$

12: 1, 2, 3, 4, 6, 12

$$15 = 1 \times 15, 3 \times 5$$

15: 1, 3, 5, 15

$$\boxed{\text{GCF} = 3}$$

## Least Common Multiple

Multiples are numbers that can be divided by a given number without a remainder.

To find the least common multiple (LCM) of 2 or more numbers:

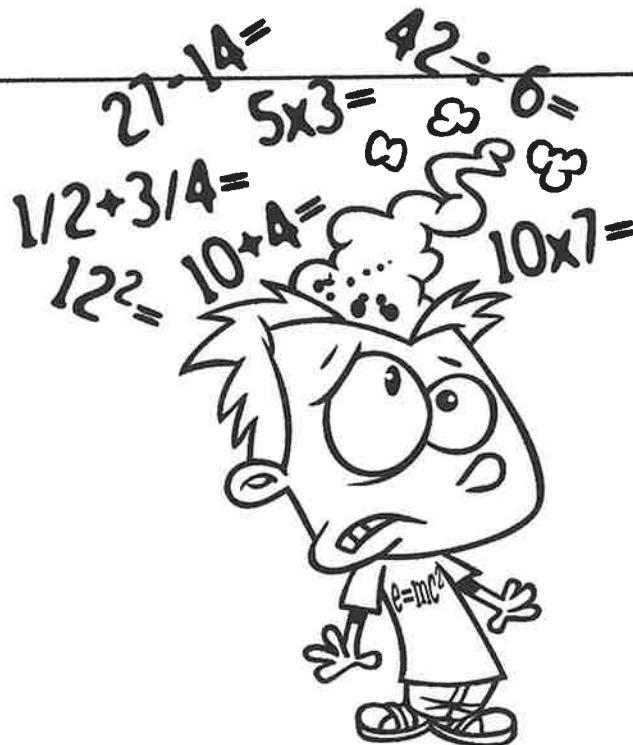
1. List the first several multiples of each number.
2. Find the smallest number that is a multiple of each number.

ex: find the LCM of  
6 & 8

6: 6, 12, 18, 24, 30

8: 8, 16, 24, 32, 40

$$\boxed{\text{LCM} = 24}$$



Find the greatest common factor of each pair or group of numbers.

44. 20 & 15	45. 12 & 18	46. 24 & 30	47. 22 & 28
48. 20 & 40	49. 18 & 27	50. 6, 8, & 12	51. 12, 18, & 24

Find the least common multiple of each pair or group of numbers

52. 8 & 10	53. 9 & 6	54. 8 & 12	55. 7 & 8
56. 9 & 12	57. 10 & 15	58. 6, 9, & 12	59. 4, 6, & 10

## Simplifying Fractions

1. Divide the numerator and denominator by a common factor.
2. Repeat until the only common factor of the numerator and denominator is 1.

ex: simplify  $\frac{10}{12}$

you can divide both 10 and 12 by 2

$$\frac{10}{12} \begin{array}{l} \div 2 \\ = \\ \div 2 \end{array} \boxed{\frac{5}{6}}$$

the only number you can divide both 5 and 6 by is 1, so you are done!

## Comparing Fractions

1. Find a common denominator for the fractions by finding a common multiple of the two denominators.
2. For each fraction, determine what you multiplied the denominator by to get that common denominator, and then multiply the numerator by that same number.
3. Now that the fractions are rewritten with common denominators, compare the two fractions. The fraction with the larger numerator is greater.
4. Use the appropriate symbol to compare the fractions.  
<: less than, >: greater than, =: equal to

ex: compare:  $\frac{3}{4} \bigcirc \frac{5}{6}$

12 is a multiple of both 4 and 6

$$\frac{3}{4} \begin{array}{l} \times 3 \\ = \\ \times 3 \end{array} \frac{9}{12} \qquad \frac{5}{6} \begin{array}{l} \times 2 \\ = \\ \times 2 \end{array} \frac{10}{12}$$

$$\frac{9}{12} \bigcirc \frac{10}{12}$$

9 is smaller than 10, so the 1<sup>st</sup> fraction is LESS THAN the 2<sup>nd</sup> fraction







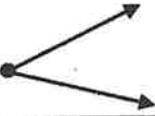
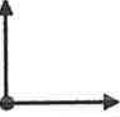


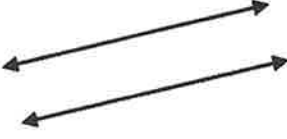
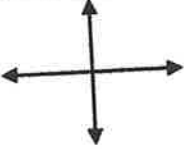
Simplify each fraction.

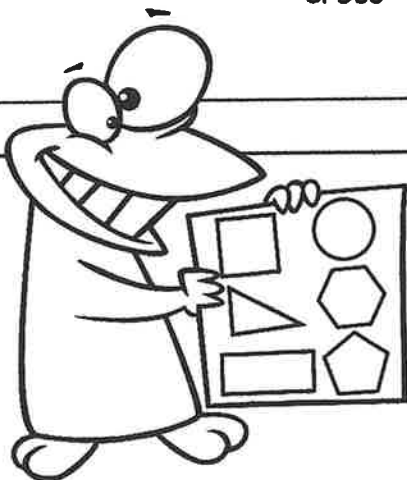
60. $\frac{9}{12}$	61. $\frac{6}{8}$	62. $\frac{6}{15}$	63. $\frac{4}{8}$
64. $\frac{8}{24}$	65. $\frac{3}{12}$	66. $\frac{2}{10}$	67. $\frac{10}{30}$

Compare each pair of fractions using  $<$ ,  $>$ , or  $=$  by renaming them with a common denominator.

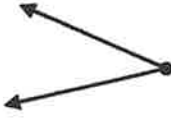





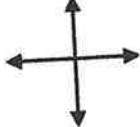

68. $\frac{3}{5} \bigcirc \frac{2}{10}$	69. $\frac{1}{4} \bigcirc \frac{1}{6}$	70. $\frac{3}{5} \bigcirc \frac{7}{10}$
71. $\frac{1}{2} \bigcirc \frac{4}{8}$	72. $\frac{1}{5} \bigcirc \frac{4}{15}$	73. $\frac{2}{9} \bigcirc \frac{1}{3}$
74. $\frac{7}{8} \bigcirc \frac{3}{4}$	75. $\frac{3}{9} \bigcirc \frac{2}{6}$	76. $\frac{1}{2} \bigcirc \frac{1}{3}$

# Geometric Figures

<u>Point</u> : a location	
<u>Line</u> : a straight line made up of points that extends forever in both directions	
<u>Line Segment</u> : a part of a line with two endpoints	
<u>Ray</u> : a part of a line with one endpoint that extends forever in one direction	
<u>Angle</u> : two rays with a common endpoint	
<u>Right Angle</u> : an angle with a measure of $90^\circ$	
<u>Acute Angle</u> : an angle with a measure less than $90^\circ$	
<u>Obtuse Angle</u> : an angle with a measure greater than $90^\circ$	
<u>Parallel Lines</u> : lines that never meet and are always the same distance apart	
<u>Perpendicular Lines</u> : lines that form right angles where they cross	



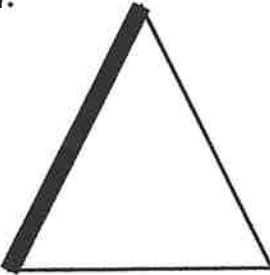
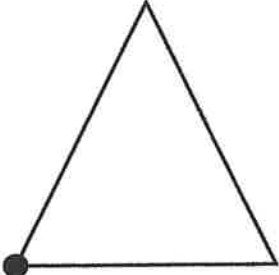
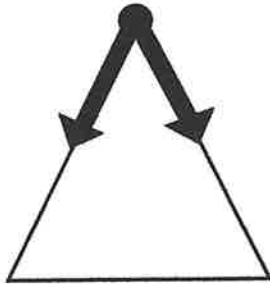
Identify each geometric figure.

77. 	78. 	79. 	80. 
81. 	82. 	83. 	84. 

Draw your own example of each geometric figure.

85. obtuse angle	86. ray	87. acute angle	88. parallel lines
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Use a geometry term to identify the **bold** part of each triangle.

89. 	90. 	91. 
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Solve each word problem.

92. Tina left her house at 6:45 AM. She came home at 1:35 PM. How long was she out of the house?

93. Greg made \$18 per hour doing yardwork. If he worked for 6 hours, how much money did he make?

94. Mrs. Appleton baked 24 cookies. If she split the cookies evenly among her 5 children, how many cookies did each child get? How many cookies were leftover?

95. If Tyler is currently 51 inches tall, how many inches more does he need to grow to be 5 feet tall?

96. 24 out of the 30 students in Mr. Willow's class ride the bus to school. What fraction of the class does not ride the bus? Express your answer in simplest form.

97. Xavier played video games for 1 hour and 45 minutes before he went to bed. If he went to bed at 9:00 PM, what time did he start playing video games?

98. Hot dogs come in packages of 12. Hot dog buns come in packages of 8. What is the least number of hot dogs & buns you can buy so that you have the same number of each?

99. Joelle makes \$9 each hour she babysits. If a new phone costs \$112, how many hours must she babysit so that she has enough money to buy the phone?

100. Heather goes to ballet three times a week for 30 minutes each time. She tap dances twice a week for 45 minutes each time. How much time in all does she dance per week?