5

Entering 6th Grade Summer Math Packet

First Name:	_Last Name:

6th Grade Teacher: _____

I have checked the work completed:_______
Parent Signature

1. Find the products. This page should be completed in 3 minutes no more than 4 minutes. Have someone time you. Any multiplication problem you do not know quickly, practice on flash cards.

6	4	7	5	12	3	6	3	0	7	5	6	3 8
<u>x2</u>	<u>x4</u>	<u>x2</u>	<u>x4</u>	<u>x0</u>	<u>x5</u>	<u>x3</u>	<u>x8</u>	<u>x8</u>	<u>x3</u>	<u>x5</u>	<u>x4</u>	<u>x9 x3</u>
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<u>x8</u>	<u>x6</u>	<u>x7</u>	<u>x2</u>	<u>x6</u>	<u>x9</u>	<u>x6</u>	<u>x9</u>	<u>x1</u>	<u>x5</u>	<u>x1</u>	<u>x4</u>	<u>x3 x3</u>
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2)2	3)9	8)32	7)49	5)10	4)0	1)1	4)8	2)12	9)54	1)3	1)2	2)4
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8)16	3)21	9)18	4)24	2)6	1)8	5)35	7)35	3)27	6)36	3)24	2)0	4)32
9)9	4)36	6)42	5)40	8)64	7)14	6)30	8)56	1)5	4)28	7)56	8)24	6)24
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2. Find the quotients. This page should be completed in 3 no more than 4 minutes. Practice any problems you do not know instantly. Think of the multiplication fact family. The better you know your multiplication facts the easier division will be.

6

Select the one best answer for each question. DO NOT use a calculator in completing this packet.

- 3. Jennie was assigned this problem:
 - 146 x25

She worked out the problem in this way:

146 x 2 = 292, and 146 x 5 = 730. Then she added 292 + 730. She knew that her answer was wrong because her answer seemed too small. What should she have done differently?

- A. She should have multiplied 146 x 50 instead of 146 x 50.
- B. She should have multiplied 146 x 20 instead of 146 x 2.
- C. She should have multiplied 146 x 200 instead of 146 x 2.
- D. She should have multiplied 140 x 2 instead of 146 x 2.
- 4. Which of the following is the correct computation of 4,063 x 52? (Do not use a calculator.)

A. 4,063	B. 4,063	C. 4,063	D.	4,063
<u>x 52</u>	<u>x 52</u>	<u>x 52</u>		<u>x 52</u>
8026	8126	8126		8126
200150	20315	2030150		<u>203150</u>
208176	28441	2038276 <u></u>		211276

- 5. Samantha has to read a book that is 525 pages long. She has 21 days to read the book. How many pages will she need to read each day to finish on time?
 - A. 21
 - B. 25
 - C. 546
 - D. 11,025
- 6. Andrew's family is going on vacation across the United States. They traveled 515 miles every day for 17 days. How many miles did they travel in all?
 - A. 532
 - B. 4,120
 - C. 8,165
 - D. 8,755
- 7. Three classes of 25 students collected 8 cans of soup from each student. The cans were then to be divided between 4 charities. How many cans of soup went to each charity?
 - A. 50
 - B. 108
 - C. 150
 - D. 800

- 8. Brent has a collection of 84 Bobble Head trophies he needs to box up for the move to his new home. He can fit 7 trophies into one box. How many boxes will Brent need?
 - A. 10
 - B. 12
 - C. 13
 - D. 21
- 9. Kayla has 12 cousins. She received \$15.00 from each cousin for her birthday. How much money did she receive in all?
 - A. \$27
 - B. \$120
 - C. \$150
 - D. \$180
- 10. The 5th grade is going on a trip to the state park. There are 1,012 students going. Each bus can hold 44 students. How many busses will they need? (Do not use a calculator.)
 - A. 23
 - B. 26
 - C. 50
 - D. 968
- 11. Find $1717 \div 17$. Do not use a calculator.
 - A. 11B. 101C. 107
 - D. 1001

12. Solve $4806 \div 15$ without using a calculator, show your work.

A. 32
B. 320 r 6
C. 320 r 4
D. 320

13. Solve $647 \div 21$. Do not use a calculator, show your work.

- A. 3 r 11
 B. 3 r 21
 C. 30 r 8
- D. 30 r 17

- 14. Use a factor tree to find the prime factorization of the composite number 50. Which answer expresses the number in exponential notation (powers)?
 - A. A. 2×5^2 B. $2^2 \times 5^2$ C. $2^3 \times 5^3$ D. 10×5
- 15. Find the prime factorization for 84.
 - A. 2 x 42
 B. 7 x 2 x 2 x 3
 C. 7 x 4 x 3
 D. 7 x 12
- 16. Find the prime factorization for the number 48 expressed in exponential notation.
 - A. $3^{1} \times 2^{4}$ B. 6×8^{1} C. $3 \times 2^{4} \times 4$ D. $3 \times 2^{2} \times 4$
- 17. Which drawing would you use to find the product of these two fractions?



- A. Drawing a
- B. Drawing b
- C. Drawing c
- D. Drawing d

18. Solve this equation:

$$\frac{2}{3} \div 3 =$$

- A. 2
- B. 3
- C. 2/6
- D. 2/9

- 19. Solve the following:
 - A. 4/3
 - B. 1/7
 - C. 1/12
 - D. 12

20. Solve this equation: $2 \div \frac{1}{4} =$

 $1/3 \div 4 =$

- A. 1/2
- B. 2/4
- C. 2
- D. 8
- 21. Mrs. Lovell's class is baking cookies. They need 3 3/5 pounds of sugar and 5 1/3 pounds of flour. When they mix the sugar and flour together, how many pounds will they have altogether?
 - A. 8 4/8 pounds
 - B. 8 ³⁄₄ pounds
 - C. 9 3/15 pounds
 - D. 8 14/15 pounds
- 22. Choose the correct answer for this problem:
 - 7/9 3/8 =
 - A. 10/17B. 29/72C. 56/27
 - D. 21/72
- 23. Choose the correct answer for this problem:
 - 3/7 + 2/9 =
 - A. 5/16
 B. 41/63
 C. 6/63
 D. 18/14
- 24. Tom had 7/12 of a pizza. His little sister came along and took 2/5 of his pizza away. How much pizza does Tom have left?
 - A. 11/60
 B. 5/7
 C. 9/17
 D. 5/60

- 25. Jill has ³/₄ of a yard of ribbon. Tammy has 4/7 of a yard. How much do they have together?
 - A. 7/11 of a yard
 - B. 40/28 of a yard
 - C. 1/3 of a yard
 - D. 37/28 of a yard
- 26. Paul had 3 7/8 cups of milk. He gave 1 ³/₄ cups of milk to his cat. How much milk did he have left? Show your work.
 - A. 2 cups
 - B. 2 1/8 cups
 - C. 2 4/4 cups
 - D. 1 7/8 cups
- 27. Nancy ate 1/3 of a pizza and Gabe ate ¼ of the pizza. How much of the whole pizza is left?
 - A. 7/12
 - B. 5/12
 - C. 2/7
 - D. 6/7
- 28. Choose the correct answer for this problem: 5/4 3/12 =
 - A. 2/12
 - B. 12/12
 - C. 9/24
 - D. 2/48
- 29. Patty brought ½ of a cake to class, and Joe brought ¾ of a cake on the same day. How much cake did the class have altogether? Show your work.
 - A. ¹/₄ cake
 - B. 1 cake
 - C. 4/6 cake
 - D. 1 ¹/₄ cake
- 30. Don has \$12.32 in his piggy bank. He collects and returns pop cans for \$3.70. Approximately how much money does he have together? (Round the answer to the nearest whole dollar.)
 - A. \$8
 - B. \$15
 - C. \$16
 - D. \$17

- 31. Michelle earned \$5.00 for every hour she babysat. Last week she babysat for 8 hours. She spent \$12.00 of the money she earned. Which expression could be used to find how much money she had left?
 - A. \$5.00 x 8 + \$12.00
 - B. \$5.00 + 8 \$12.00
 - C. \$5.00 x 8 \$12.00
 - D. $$5.00 \times 8 \div 12.00
- 32. Ten fourth graders will each eat one fourth of a pizza. How many pizzas need to be ordered for the ten students?
 - A. 2 pizzas
 - B. 3 pizzas
 - C. 4 pizzas
 - D. 5 pizzas
- 33. In the equation 1/3 + x = 5/12, what does x = ?
 - A. 4/9
 - B. 5/4
 - C. 1/12
 - D. 3/12
- 34. Solve for x:

 $11/12 - x = \frac{1}{4}$

- A. 10/12
- B. 8/12
- C. 10/8
- D. 3/4
- 35. Solve for x: $x + 1/3 = \frac{3}{4}$
 - A. 2/1
 B. 5/12
 C. 4/7
 D. 13/12
- 36. Exactly 1/20 of the students in Mr. Nebel's class have a bird. What percentage of his students has a bird?
 - A. 0.05%
 - B. 1%
 - C. 5%
 - D. 20%

- 37. Seven out of ten students in Ms. Allington's class completed the summer math packet. What percentage of students completed the packet?
 - A. 7 %
 - B. 70 %
 - C. .7 %
 - D. 14%

38. How much larger is one cubic foot than one cubic inch?

- A. 3 times larger
- B. 15 times larger
- C. 144 times larger
- D. 1728 times larger

39. Which of the following is NOT equivalent?

- A. 1 ton = 2000 pounds
- B. 1 mile = 5200 feet
- C. 9 feet = 3 yards
- D. 60 minutes = 3600 seconds
- 40. Sharon reads the juice bottle and finds that it contains 1.89 liters of juice. His cup only holds 240 milliliters so he wants to convert 1.89 liters to milliliters. The bottle contains how many milliliters?
 - A. 1.89 milliliters
 - B. 18.9 milliliters
 - C. 189 milliliters
 - D. 1890 milliliters
- 41. Solve the following:

2,749	156	837	368
<u>x 68</u>	<u>x 78</u>	<u>x 46</u>	<u>x 20</u>

- 42. Which is true?
 - A. 0.07 is ten times greater than 0.7
 - B. 0.070 is ten times greater than 0.007
 - C. 0.070 is equal to 0.0070
 - D. 0.07 is seven times greater than 0.70

43. Using the rectangle method, what is the area of this triangle?



- A. 2 square units
- B. 4 square units
- C. 6 square units
- D. 8 square units
- 44. Which statement is true about the relationship between the areas of these two rectangles?



- A. Rectangle A has twice the area of Rectangle B.
- B. Rectangle A has 5 times the area of Rectangle B.
- C. Rectangle A has one-half the area of Rectangle B.
- D. Rectangle A has one-fifth the area of Rectangle B.
- 45. What is the area of this quadrilateral? Area = height x width



- A. 30 feet
- B. 30 square feet
- C. 36 feet
- D. 36 square feet
- 46. Which of the following is a true statement?
 - A. 0.003 is 1/3 the value of 0.03
 - B. 0.003 is 3 times the value of 0.03
 - C. 0.003 is 1/10 the value of 0.03
 - D. 0.003 is 10 times the value of 0.03

47. How do the areas of these two figures compare? <u>Select your answer, then explain why you think</u> you answer is correct.



- A. The area of Figure A is greater than the area of Figure B.
- B. The area of Figure B is greater than the area of Figure A.
- C. The area of Figure A is equal to the area of Figure B.
- D. The area of Figure B is twice the area of Figure A.
- 48. Use the diagram to find the area of the triangle ZMT.



- A. 16 square cm
- B. 30 square cm
- C. 32 square cm
- D. 60 square cm
- 49. What is the area of this triangle?



A. $A = (5x4) \div 2$ B. $A = (5x5) \div 2$ C. $A = (6x5) \div 2$ D. $A = (6x4) \div 2$ 50. The area of the triangle can be found using the formula $A = bh \div 2$. Which of the following figures is labeled correctly to apply this formula?



51. Solve each of these without using a calculator:

4 x 6 =	8 x 8 =	6 x7 =
2 x 9 =	5 x 5 =	9 x 6 =
8 x 5 =	2 x 2 =	3 x 4 =
32 ÷ 4 =	7 x 7 =	56 ÷ 7 =
72 ÷ 9 =	18 ÷ 2 =	3 x 8 =
45 ÷ 9 =	4 x 4 =	8 x 7 =
24 ÷ 3 =	3 x 3 =	3 x 8 =

52. Find the sum or difference. Watch the signs.

501	607	850	3,031	953	700	387
-247	<u>-217</u>	+268	<u>-1,441</u>	+529	<u>- 202</u>	<u>+</u>
<u>487</u>						

53. Find the difference 701.02 - 234.12. Show your work

54. What is the area in square centimeters of the triangle pictured below?



- A. 28 square cm.
- B. 56 square cm.
- C. 96 square cm.
- D. 192 square cm.
- 55. What is the area of this triangle?



- A. 7
- **B**. 11
- C. 12
- D. 24

56. What is the area of this triangle? $(A = bh \div 2)$



- A. 17 sq. cm.
- B. 33 sq. cm.
- C. 66 sq. cm.
- D. 132 sq. cm
- 57. The fraction 4/20 equals what percentage?
 - A. 4 %
 - B. 20%
 - C. 25%
 - D. 40%

58. Use the diagram to find the area of the parallelogram. (A = bh)



- A. 12 square centimeters
- B. 15 square centimeters
- C. 20 square centimeters
- D. 60 square centimeters
- 59. Find the area of the <u>parallelogram</u> below.



- A. 12 cm^2
- B. 24 cm^2
- C. 32 cm^2
- D. 40 cm^2
- 60. What is the area of the parallelogram shown below?



- A. 14 cm^2
- B. 20 cm^2
- C. 28 cm^2
- D. 40 cm^2
- 61. The area of this parallelogram is 24 square units. The base of the parallelogram is 8 units. What is the height of the figure? Circle your answer below and draw the height on the parallelogram.



- A. 2 units
- B. 3 units
- C. 4 units
- D. 6 units

- 62. The area of a parallelogram is 36 square inches. All of the following are possible bases and heights for this figure EXCEPT:
- A. 1 inch by 36 inches
- B. 3 inches by 12 inches
- C. 4 inches by 9 inches
- D. 5 inches by 7 inches
- 63. The base of the parallelogram below is 9 centimeters. The area is 72 square centimeters. What must the height of the parallelogram by? (A = bh)



- A. 6 centimeters
- B. 7 centimeters
- C. 8 centimeters
- D. 9 centimeters
- 64. Using unit cubes, build a solid that is 6 units in length, 2 units in width, and 3 units in height. What is the volume?
- A. 11 cube units
- B. 18 cube units
- C. 24 cube units
- D. 36 cube units
- 65. Using unit cubes, build a solid that is 4 units in length, 4 units in width, and 4 units in height. What is the volume?
- A. 12 cube units
- B. 16 cube units
- C. 36 cube units
- D. 64 cube units
- 66. A cereal box has the shape of a rectangular prism. It is 12 inches high, 6 inches wide and 2 inches deep. How many cubic inches of cereal can it hold?





- 67. If the minute hand moves half way around a clock, how many degrees has the minute hand turned?
 - A. 90°
 - **B**. 180°
 - $C. \quad 270^{\circ}$
 - D. 360°
- 68. If you are facing north and you turn your body so that you are facing east, how many degrees have you turned?

 \Box

- A. 90°
- **B.** 180°
- C. 270°
- D. 360°
- 69. Find the sum of 23.5 + 157.93. Show your work.
- 70. Which of the following angles is an acute angle?



71. Which of these angles is a straight angle?



72. Which pair of angles are vertical angles?





B. <BOCC. <AODD. <DOA

74. What is the measure of angle y? (Do NOT use a protractor to find your answer.)



A. 40B. 50C. 140D. 180

75. In the diagram below, which is the closest to the angle measurement? (Do NOT use a protractor to find your answer.)



- A. 25 degrees
- B. 85 degrees
- C. 150 degrees
- D. 180 degrees
- 76. A pizza is divided into 6 pieces. Each piece is the same size, as shown in the picture. Think about what the total angle measurement is for all 6 pieces. Then calculate the angle measurement for one piece, angle x.



One piece of pizza has an angle measure of

- A. 30°
- B. 40°
- C. 50°
- D. 60°
- 77. A gate is open in a 50 degree angle. How many more degrees will the gate have to open until it is flat against the fence?



- A. 40[°]
- B. 100°
- C. 130°
- D. 310°

78. Solve the following:

1 x 9 =	3 x 6 =	9 x 7 =	6 x 2 =
8 x 6 =	2 x 2 =	3 x 8 =	9 x 9 =
24 ÷ 3 =	7 x 7 =	56 ÷ 7 =	4 x 0
48 ÷ 6 =	18 ÷ 6 =	7 x 3 =	7 x 6 =

79. In a spinner game, the spinner has 4 regions of unequal size, as shown below.



How many degrees are in the missing angle x? (Do NOT use a protractor.)

- A. 30°
- B. 45°
- C. 60°
- D. 75°
- · 80. Raymond played with a game spinner shown below and realized that he could see angles in different sections of the spinner.



What is the sum of all these angles?

- A. 90°
- B. 185°
- C. 275°
- D. 360°

81. <ACD measures 60°. Find the measurement of <ACB. (Do NOT use a protractor.)



- A. 120°
- B. 130°
- C. 160°
- D. 180°

82. Which of the following could be the measures of the interior angles of a triangle?

- A. 30°, 30°, 30°
- B. 30°, 60°, 90°
- C. $60^{\circ}, 90^{\circ}, 120^{\circ}$
- D. 60°, 120°, 180°
- 83. This is a parallelogram. In all parallelograms, the opposite angles are equal. Find the measure of angle x.



- A. 50°
- B. 60°
- C. 70°
- D. 120°

84. What is the measurement of angle A?



- A. 45°
- B. 60°
- C. 90°
- D. 120°

85. What is the sum of the angles in this polygon? Choose the correct answer, and then explain how you figured it out.



- A. 180°
- B. 360°
- $C. \quad 540^{\circ}$
- $D. \ 720^{\circ}$
- 86. In a quadrilateral, two of the angles each have a measure of 110°, and the measure of the third angle is 90°. What is the measure of the remaining angle?
 - A. 50°
 - B. 90°
 - C. 130°
 - D. 160°

87. In this triangle, what is the measure of angle B?



- A. 30°
- $B. \quad 45^{\circ}$
- C. 60°
- D. 180°

88. What is the measurement of angle X in this triangle?



- A. 90°
- B. 120°
- $C. 130^{\circ}$
- D. 135°

89. If angle A equals 45°, what is the measure of angle B? Choose the correct answer, then explain who you figured it out.



A. 60°

B. 130°

C. 135°

D. 145°

90. How many more magazines were sold in 1990 than in 1989?



- A. About 50 magazines
- B. About 100 magazines
- C. About 200 magazines
- D. About 250 magazines

91. Using the graph below, when did New Zealand's GDP increase the most?



Gross Domestic Product (GDP) for New Zealand and Other Countries

- A. 1986-87
- B. 1988-89
- C. 1992-93
- D. 1995-96

- 92. Using the graph above. In 1988 what was the difference of the GDP for Other Countries and New Zealand?
 - A. About \$100 per head
 - B. About \$200 per head
 - C. About \$1200 per head
 - D. About \$1300 per head
- 93. Family A has 2 children, Family B has 1 child, Family C has 1 child, and Family D has 4 children. What is the mean number of children for the families?
 - A. 1
 - B. 2
 - C. 3
 - D. 4
- 94. The set of data below represents the number of books read in one month by each member of the book club.

3, 6, 7, 3, 3, 9, 0, 0, 1, 3, 7, 2, 5, 9, 7

What is the mode number of books for this set of data?

A. 0
B. 3
C. 7
D. 9

What is the range number of books for the set of data above?

- A. 0B. 1
- C. 7
- D. 9
- 95. The data below show a set of Angela's golf scores. What is the mean of the scores listed? 84, 88, 88, 77, 73
 - A. 73
 - B. 82
 - C. 84
 - D. 88
- 96. Family A has 2 children, Family B has 0 children, Family C has 1 child, and Family D has 0 children. Find the mode for this data.
 - A. 0
 - **B**. 1
 - C. 2
 - D. 3

97. Find the difference:

701	68	100	63	35	114	66
- <u>35</u>	<u>- 27</u>	<u>- 37</u>	<u>- 47</u>	<u>-15</u>	<u>- 37</u>	<u>- 24</u>
98. Find th	ne product:					
36.1	0.47	5.9	0.28	19	5.6	78
<u>x 3.7</u>	<u>x 68</u>	<u>x 39</u>	<u>x 1.8</u>	<u>x 4.7</u>	<u>x 3.6</u>	<u>x .37</u>

99. Last summer Samantha swam the backstroke in five swim meets. Her times were: 56 seconds 56 seconds 44 seconds 47 seconds 42 seconds Find the mean of her times.

- A. 47
- B. 49
- C. 50
- D. 56

100. Mary's quiz scores were 92, 85, 78, 92, 71, 77, and 80. She told her mother she had an average of 92 for her quiz scores. Which term best describes her average score?

- A. Mean
- B. Median
- C. Mode
- D. Range

101. What is the mean of this set of numbers? 4, 8, 3, 2, 5, 8, 12

- A. 4
- B. 5
- C. 6
- D. 7

102. What is the median of this set of numbers? 4, 8, 3, 2, 5, 8, 12

- A. 6
- B. 8
- C. 5
- D. 4

103. What is the mode of this set of numbers? 8, 1, 3, 10, 8, 1, 2, 5, 6, 1, 88

104. Students collected books for a book drive. Five students collected the following number of books:

Student 1: 17 books Student 2: 8 books Student 3: 10 books Student 4: 8 books Student 5: 12 books

What is the mode of this set of data?

What is the mean number of books collected per student?

- A. 8 books
- B. 10 books
- C. 11 books
- D. 12 books

105. The mean of nine test scores is 61. If a score of 71 is added to the group of scores, what is the new mean?

- A. 62
- B. 65
- C. 66
- D. 68

D. \$62,000

106. What is the difference between the mean salary of the workers and the mean salary of everyone including the President and Vice-President? You may use a calculator.

Position	Salary
President	\$256,000
Vice-President	\$127,000
Worker #1	\$ 35,000
Worker #2	\$ 20,000
Worker #3	\$ 18,000
Worker #4	\$ 31,000
Worker #5	\$ 24,000
Worker #6	\$ 21,000
Worker #7	\$26,000
A. \$25,000	
B. \$37,000	
C. \$45,000	

107.	The table shows the scores of 20 students on a history test.	What is the average student
score?	You may use a calculator.	

Score	Number of Students
90	3
85	5
80	3
75	4
70	2
60	0
55	3
 A. 26 B. 74 C. 77 D. 85 	

108. Sandy had test scores of 20, 25, 17, 22 and 21 (out of 25 total). What is her average (mean) score?

On the next 3 tests Sandy's scores were 24, 24 and 23. What is her mean now?

A. 24

B. 23

C. 22

D. 21

Explain how you figured this out.

109. Philip solved the following problem incorrectly. Explain his mistake.

1659
<u>x 21</u>
1659
+3318
4977

110. Use mental math to solve:

A.	400 x 3 =	60 x 60 =	8,000 x 20 =
B.	1600 ÷ 80 =	250 ÷ 50 =	12000 ÷ 400 =

111. Find the product:

36	47	59	28	19	56	78
<u>x 47</u>	<u>x 68</u>	<u>x 39</u>	<u>x 18</u>	<u>x 47</u>	<u>x 36</u>	<u>x 37</u>

112. Construct a factor tree for the composite number 27. Express your answer in exponential notation (powers).

113. Nancy and Gabe had a pizza with 12 pieces. Brent ate 1/3 of a pizza and Kayla ate $\frac{1}{4}$ of a pizza. How much of the whole pizza **is left?** Show your work.

114. Show which is larger, smaller or equal using the less than symbol (<), the greater than symbol (>), or the equal sign (=).

1 in.³_____1 ft.³ 1 cm.³_____1 m.³ 2 ft.³_____1 yd.³

115. Explain why the formula for finding the area of a triangle makes sense in terms of the area of a rectangle (use a drawing in your explanation).

116. Use a protractor to measure the following angles. Then classify them as acute, obtuse, or right angles.



117. This parallelogram has one angle of 50° . What are the measures of the other angles?



- A. Measure of angle A _____
- B. Measure of angle B _____
- C. Measure of angle C _____
- 118. Show your work: 723.89 + 23.8 = _____

119. Show your work: 824.03 - 123.8 =_____

120. Show your work: 4.3 x 6.8 = _____

121. Do the following divisions. Then check your answer. Show your work. No calculators!

Check your work:

X_____

A. 1524 ÷ 6 =	<u>x 6</u> 1524
B. 380 ÷ 10 =	<u>x 10</u> 380
C. 4235 ÷ 10 =	X
D. 4) 769	x
E. 5) 765	