

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

Sixth Grade Summer Math Packet

**Directions:** Complete the following *scrambled* multiplication charts. The charts below have some factors and multiples already completed. Finish filling in the missing factors and missing multiples. (Remember the factors are not in order so you must use the numbers already there to help)

A.

X	7								1
9	63								9
				70					84
			25			15			
							32		
					8			4	
					48				
		66				33			11
			30				48		
3	21			30				6	
		48							96

B.

X									
			20				60		
	12								54
						64			
					84				
		90						45	
			44						66
				9					
					28				36
	2						12		
		70						35	

C.

X									
		24						84	
				60			90		
	36								9
			20		40				
						70			35
			36		72				
				66			99		
						80			24
	72								30
		8						28	

D.

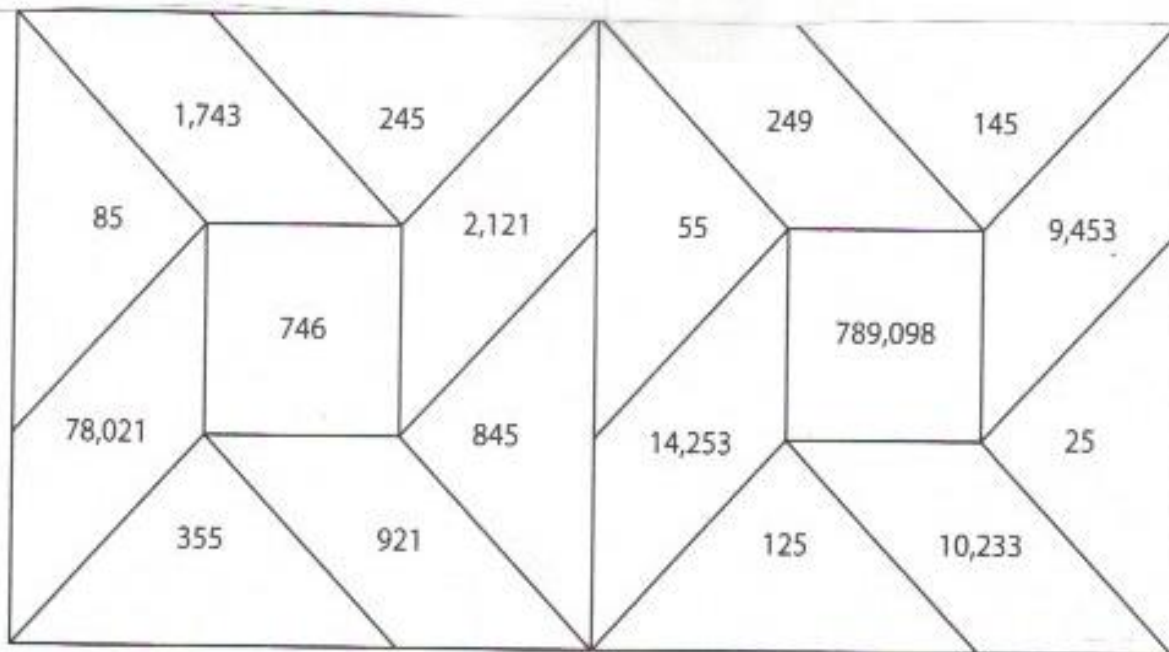
X									
	24							4	
		33				77			
				50			110		
								18	81
				32					
					5				10
	144					72			
		9						33	
			16				28		
					36				54

Sixth Grade Summer Math Packet

**Directions:** Use the divisibility rules to color the design below. Follow the directions below the picture.

Rules of Divisibility

Rules	Example
A number is divisible by 2 if the last digit is 0, 2, 4, 6 or 8.	168 is divisible by 2 since the last digit is 8.
A number is divisible by 3 if the sum of the digits is divisible by 3.	168 is divisible by 3 since the sum of the digits is 15 ( $1+6+8=15$ ), and 15 is divisible by 3.
A number is divisible by 4 if the number formed by the last two digits is divisible by 4.	316 is divisible by 4 since 16 is divisible by 4.
A number is divisible by 5 if the last digit is either 0 or 5.	195 is divisible by 5 since the last digit is 5.
A number is divisible by 6 if it is divisible by 2 <b>AND</b> it is divisible by 3.	168 is divisible by 6 since it is divisible by 2 <b>AND</b> it is divisible by 3.
A number is divisible by 8 if the number formed by the last three digits is divisible by 8.	7,120 is divisible by 8 since 120 is divisible by 8.
A number is divisible by 9 if the sum of the digits is divisible by 9.	549 is divisible by 9 since the sum of the digits is 18 ( $5+4+9=18$ ), and 18 is divisible by 9.
A number is divisible by 10 if the last digit is 0.	1,470 is divisible by 10 since the last digit is 0.



Look at each number.

If the number is	Color the shape
divisible by 2	yellow
divisible by 3	purple
divisible by 5	pink

Fill in the other shapes with colors of your choice.



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Sixth Grade Summer Math Packet

Part I Multiples of 10 and 100

Do the following problems in your head. Write only your answers.

A.  $9 \times 30 =$  \_\_\_\_\_

B.  $20 \times 30 =$  \_\_\_\_\_

C.  $40 \times 800 =$  \_\_\_\_\_

D.  $70 \times 600 =$  \_\_\_\_\_

E.  $30 \times 800 =$  \_\_\_\_\_

Part II More Multiplies of 10 and 100

Use paper and pencil only to solve the following problems. Show your work on a separate piece of paper.

A.  $25 \times 20 =$  \_\_\_\_\_

B.  $92 \times 300 =$  \_\_\_\_\_

C.  $47 \times 90 =$  \_\_\_\_\_

D.  $68 \times 200 =$  \_\_\_\_\_

Part III Multiplication Practice

Use paper and pencil only to solve the following problems. Show your work on a separate piece of paper.

A.  $95 \times 20 =$  \_\_\_\_\_

B.  $63 \times 22 =$  \_\_\_\_\_

C.  $75 \times 75 =$  \_\_\_\_\_

D.  $432 \times 8 =$  \_\_\_\_\_

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

Sixth Grade Summer Math Packet

Below is an example of an area model and partial quotients for division. Use both strategies to solve the following division problems. Use a separate sheet of paper if you need more room.

$3,180 \div 15 = 213$

	200	10	3	
15	3,000	150	30	

$$\begin{array}{r} 15 \overline{) 3,180} \\ \underline{-3,000} \phantom{0} \\ 180 \\ \underline{-150} \\ 30 \\ \underline{-30} \\ 0 \end{array}$$

200
10
3
213

$6120 \div 72 =$

$1891 \div 20 =$

$172 \div 29 =$

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

Sixth Grade Summer Math Packet

A) Order these fractions from least to greatest:

Group 1:  $\frac{2}{3}$     $\frac{1}{4}$     $\frac{5}{6}$     $\frac{3}{8}$     $\frac{2}{12}$

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Group 2:  $\frac{3}{5}$     $\frac{1}{8}$     $\frac{4}{9}$     $\frac{1}{10}$     $\frac{1}{2}$

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B) Find one equivalent fraction for each of the following:

$\frac{6}{8}$     $\frac{3}{9}$     $\frac{2}{3}$     $\frac{4}{10}$     $\frac{3}{5}$     $\frac{6}{12}$     $\frac{1}{5}$     $\frac{5}{6}$

C) Name a fraction less than each of the following:

$\frac{1}{2}$     $\frac{1}{4}$     $\frac{3}{5}$     $\frac{7}{8}$

D) Name a fraction greater than each of the following, do not name a fraction equivalent to 1:

$\frac{1}{2}$     $\frac{3}{4}$     $\frac{1}{6}$     $\frac{9}{10}$

# What Did George Washington, Abraham Lincoln, and Christopher Columbus Have in Common?



Do each exercise and find your answer in the answer column directly under it. Write the letter of the answer in the box containing the number of the exercise. If the answer has a ●, shade in the box instead of writing a letter in it.

Round to the nearest tenth.		Round to the nearest hundredth or to the nearest cent.		Round to the nearest whole number or to the nearest dollar.	
1	6.43	6	37.3274	21	9.356
2	17.19	7	4.9009	22	83.9047
3	3.751	8	0.0555	23	30.06666
4	0.5059	9	12.78028	24	9.8277
5	6.6666	10	4.96	25	156.5
Answers:	Answers:	Answers:	Answers:	Answers:	Answers:
S 6.6	L 5.1	L 0.66	L \$60.47	F 32	B \$167
● 3.8	Y 12.8	D 3.83	B \$7.60	A 84	D \$3
E 6.4	E 37.3	A 0.61	● \$0.95	S 158	● \$45
N 17.3	C 0.2	O 24.79	D \$26.47	O 9	L \$99
E 0.5	R 0.1	F 0.62	O \$7.75	S 10	S \$4
H 17.2	W 5.0	R 8.33	M \$60.48	E 85	Y \$168
T 6.7	I 12.6	● 3.85	N \$26.48	I 157	H \$100
A 0.6	● 4.9	E 24.81	F \$7.61	N 30	S \$46

5	2	6	9	7	10	4	8	1	3	15	17	12	18	20	13	11	19	14	16	23	26	29	21	30	25	28	22	27	24
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