Summer Packet 2021

Students Entering 5th Grade

Purpose: This packet is designed to help students stay on track over the summer and enter 5th grade confident and prepared for a great school year. After reviewing the 4th grade skills, this packet contains the concepts that you will be expected to know when entering 5th grade math.

***Students should be fluent in 0-12 multiplication and division facts. They will be given timed tests on these facts during the first 9 weeks of school.

A. Place Value:

1. Write the number 310, 409 in various forms:

a. Expanded form_____

b. Written form_____

2. What is the standard form of three hundred twenty million, seventy-three thousand, forty-seven? _____

2. What is the value of the 4 in 310,409? _____

3. Which digit is in the ten thousand place in 310,409? _____

4. Write the VALUE of each digit for 6,423.

6_____

4_____

2_____

3_____

5. Round 542,173 to

a. the nearest thousand_____

b. the nearest hundred _____

c. the nearest tens _____

6. Number Patterns- Fill in the blank

3 x 6 = 18	48 x 1 = 48
3 x 60 = 180	48 x 10 = 480
3 x 600 = 1800	48 x 100 = 4800
3 x 6000 =_____	48 x 1000 = _____

7. Comparing Numbers- Compare the following numbers using <, >, = in the circle provided.

20,382 ◯ 13,937

392 ◯ 329

149,392 ◯ 194,934

B. Order of Operations:

List the order of operations:

_____

_____

_____

1. Use the order of operations to solve the following equations:

a. 3 + (4 x 12) _____ b. 6 x (12 - 4) _____

2. Write an EXPRESSION to match the words:

a. Josh has 14 baseball cards and then finds 6 more. _____

b. Sarah has $8 and then she spent $3 on a snowball. _____

C. Properties:

The Properties you should be able to identify and give and examples of are:

a. Associative Property of Addition

b. Associative Property of Multiplication

c. Commutative Property of Addition

d. Commutative Property of Multiplication

e. Identity Property of Addition

f. Identity Property of Multiplication

g. Distributive Property

Name the property demonstrated using the list above:

1. $(3\times6)\times5 = 3\times(6\times5)$_____

2. 3 + 7 + 9= 7 + 3 + 9 _____

3. 127 x 1 = 127 _____

4. 15 + 0= 15_____

5. 1,000 x 1 =_____

6. 24 x 3 = (20 x 3) + (4 x 3) _____

D. Addition and Subtraction

1. 40,107	2. 54,372	3. 778,473	4. 50,889
+ 28, 532	+ 10,090	- 304, 279	- 23,593

5. Last year, the local animal shelter found homes for 12,308 dogs and 7,953 cats. What is the total number of dogs and cats the animal shelter found homes for last year?

6. The area of South Dakota is 77,353 square miles. The area of North Dakota is 70,700 square miles. How many square miles greater is the area of South Dakota than the area of North Dakota?

7. An amusement park had 56,437 and visitors the first year and 48,319 the second year it was open. What was the total number of visitors for both years?

E. Multiplication and Division

1. 97	2. 193	3. 89	4. 453
X 4	x 3	x 8	x 8

5. 20,000÷ 4= 6. 2,403÷ 9= 7. 492 ÷4=

8. A family pass to the amusement park cost $54. Using the Distributive Property, write an expression that can be used to find the cost in dollars of 8 family passes.

9. Jaycee's parent buy 4 tickets for the nature museum. Each ticket costs $13. What is the total cost of the 4 tickets?

10. A theater has 1,678 seats. A magician performed 3 sold out shows at the theater. How many people could see the magician's show?

11. List the parts of a division problem with the label quotient, divisor, dividend:

$$328 \div 4 = 82$$

12. On Saturday, a total of 1292 people went to see a new movie. There were 4 different showings for the new movie and the same number of people attended each showing. How many people attended each showing?

13. A dentist bought 9 bags of prizes for his patients. Each bag had 12 prizes. The prizes were divided equally among 3 boxes. How many prizes were in each box?

F. Fractions-

1. List the common denominators for the following pairs of numbers:

a. 2, 3 _____ b. 3, 4_____ c. 2, 6_____ d. 3, 8_____

2. Make an equivalent fraction for the following:

a. $\frac{1}{6}$ = _____ b. $\frac{4}{9}$ =_____ c. $\frac{2}{7}$ = _____ d. $\frac{3}{8}$ =_____

3. Simplify the following fractions:

a. $\frac{4}{6}$ = _____ b. $\frac{8}{24}$ = _____ c. $\frac{7}{49}$ = _____ d. $\frac{6}{8}$ = _____

4. Adding and Subtracting Fractions: Perform the operation and answer in simplest form

a. $\frac{3}{9} + \frac{2}{9}$ = _____ b. $\frac{5}{7} + \frac{2}{7}$ =_____

c. $\frac{5}{6} - \frac{1}{6}$ =_____ d. $\frac{7}{10} - \frac{3}{10}$ =_____

e. Mrs. Mitchell needs ½ cup mixed nuts for her granola recipe. She only has a ¼ cup measuring cup. Write the equivalent fraction that shows the amount of mixed nuts she will use for the recipe.

f. Michael is practicing baseball. He spends ½ hour on his hitting and ¼ hour on ground balls. What is a common denominator for ½ and ¼?

g. Ali needs 4/10 yards of red ribbon and 5/10 of blue ribbon to make a tail for her kite. How much ribbon does Ali need in all?

h. Bryan brought 8/10 gallon of water on a hiking trip. He drank 4/10 gallon of water. How much water is left?

i. Lily has two kittens. One kitten weighs 15/16 pound. The other kitten weighs 12/16 pound. What is the difference in the weights of the two kittens?

k. Jamie put $2\frac{3}{12}$ pounds of green apples into a bag. He then added $3\frac{5}{12}$ pounds of red apples into the same bag. What is the total weight of the apples in the bag?

l. Mrs. Dees buys $4\frac{5}{8}$ yards of blue fabric and $2\frac{1}{8}$ yards of green fabric. How many more yards of blue fabric that green fabric does Mrs. Dees buy?

G. Decimals

1. The stout infant fish is one of the world's smallest fish. It is only about $8\frac{4}{10}$ millimeters long. What is this length written as a decimal?

2. What is $2\frac{75}{100}$ written as a decimal?

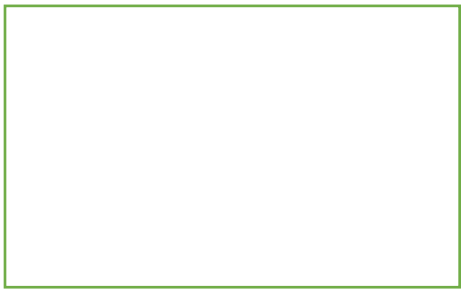
3. Jill buys a tomato that weighs 0.9 pound. Write the weight of the tomato as a fraction with a denominator of 100.

H. Geometry

1. Give an example of each of the following;

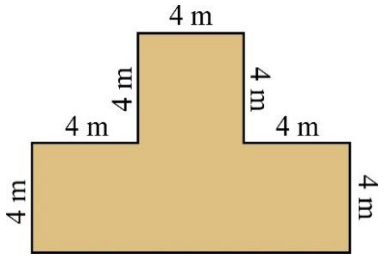
a. Parallel lines b. Perpendicular lines c. intersecting lines

2. Stella wants to put ribbon around the perimeter of her art project. How many centimeters of ribbon will she need?



3.) Henry draws an obtuse triangle. How many obtuse angles does Henry's triangle have?

4.) Find the perimeter of the figure.



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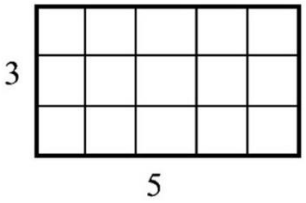
5.) Find the area of the figure.



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I. Conversions: Fill in the blank for these customary units

Weight	Length	Capacity
1 pound = _____ ounces	1 foot = _____ inches	1 cup = _____ fl. Oz
1 Ton = _____ pounds	1 yard = _____feet	1 pint = _____ cups
	1 mile = _____feet	1 quart = _____pints
	1 mile= _____ yards	1 quart = _____cups
		1 gallon = _____quarts

Multiplication Facts to 144 (A)

Find each product.

7 × 12	3 × 10	2 × 11	11 × 9	2 × 2	12 × 11	4 × 8	7 × 12	2 × 10	7 × 2
12 × 7	5 × 9	3 × 12	7 × 10	6 × 9	10 × 12	2 × 7	12 × 7	6 × 3	3 × 9
3 × 7	9 × 7	10 × 12	7 × 7	11 × 9	5 × 7	10 × 2	4 × 12	5 × 10	12 × 3
5 × 8	12 × 9	12 × 12	4 × 9	2 × 3	6 × 6	3 × 8	9 × 10	10 × 4	6 × 10
2 × 2	7 × 9	2 × 11	8 × 3	5 × 9	5 × 4	4 × 4	2 × 3	2 × 4	9 × 2
2 × 5	2 × 10	4 × 6	11 × 11	10 × 10	8 × 8	8 × 6	2 × 12	7 × 12	3 × 3
8 × 2	3 × 9	10 × 11	5 × 11	3 × 7	7 × 7	4 × 3	9 × 2	5 × 7	12 × 3
12 × 8	3 × 9	10 × 8	12 × 6	4 × 10	5 × 5	6 × 2	3 × 11	7 × 6	4 × 7
8 × 11	8 × 11	5 × 3	9 × 9	8 × 7	3 × 10	4 × 11	4 × 3	11 × 7	11 × 6
5 × 6	12 × 5	12 × 8	7 × 4	3 × 12	8 × 9	6 × 11	2 × 8	11 × 4	6 × 4

Multiplication Facts to 144 (C)

Find each product.

6 × 4	6 × 8	7 × 1	2 × 1	7 × 10	12 × 7	5 × 4	1 × 3	8 × 0	5 × 8
8 × 7	11 × 10	1 × 1	9 × 1	9 × 11	2 × 3	12 × 10	5 × 5	11 × 11	5 × 7
8 × 1	4 × 4	3 × 8	12 × 1	1 × 5	0 × 1	4 × 12	11 × 0	8 × 4	9 × 7
6 × 5	0 × 5	11 × 3	3 × 9	4 × 10	8 × 11	5 × 9	4 × 1	9 × 5	10 × 0
6 × 12	12 × 11	7 × 7	10 × 9	5 × 3	7 × 4	2 × 2	6 × 10	2 × 6	12 × 3
2 × 5	7 × 11	5 × 12	0 × 6	12 × 12	10 × 1	7 × 2	0 × 12	8 × 8	9 × 8
10 × 3	2 × 8	4 × 7	2 × 10	10 × 10	2 × 4	10 × 3	7 × 5	3 × 7	11 × 7
9 × 0	3 × 8	3 × 0	9 × 9	3 × 10	2 × 11	1 × 6	6 × 6	4 × 3	11 × 5
4 × 0	6 × 3	4 × 11	5 × 10	6 × 7	11 × 6	2 × 12	7 × 0	9 × 6	3 × 3
2 × 9	12 × 9	4 × 9	2 × 0	12 × 8	1 × 11	8 × 7	10 × 8	11 × 10	11 × 8

QR CODES:

Each QR code links to a video lesson on Khan Academy. At the top of the web page, you will notice you have the option to watch additional videos or do practice problems for extra help.

Subtracting with regrouping

Multi digit addition with regrouping

2 digit multiplication

Long Division

Subtracting fractions with like denominators

Adding fractions with like denominators

Associative and Commutative Property

Rewriting fractions as decimals

Distributive Property

Place Value

Quadrilaterals

Area and Perimeter