



MATH

2017 Summer Packet For Students Entering 5th Grade Mathematics!

The problems in this packet have been chosen to reinforce math concepts and skills learned in Grade 4.

Please monitor your child's progress to ensure the work is completed on a weekly basis, not the day before school begins!

Students need to show all mathematical thinking and write answers clearly. Completed packets are due on the 1st day of school and will count as a homework grade.

Don't forget: simple board games such as Chess, Checkers, Yahtzee, and Monopoly, and card games like Setback, Crazy Eights, and Uno are fun ways to promote mathematical thinking!



Name: _____

Summer Math Packet for Students Entering 5th

PLEASE SHOW ALL WORK

1. Write the number 85,708 in expanded form.

2. The sale prices for 3 homes are \$212,599, \$209,699, and \$220,499. Write the home prices in order from greatest to least.

3. The height of the Willis Tower is 1,450 feet. The Petronas Towers in Malaysia are each 1,482 feet tall. Which is taller? Explain how you know. Use complete sentences and the correct math vocabulary.

4. Emily read a 210 page book in 7 days. She read the same number of pages each day. Write the number sentence that shows how to find the number of pages Emily read each day. Then solve. (label answer)

5. Marcie's horse weighs 1,460 pounds. Sue's horse weighs 943 pounds. How much more does Marcie's dog weigh than Sue's dog?

6. Vera went on a 3 day trip in which she traveled 336 miles the first day, 423 miles the second day, and 357 miles on the third day. Is 300 or 400 a more reasonable estimate for about how far she went on each of the 3 days? Explain your reasoning in complete sentences.

7. If you grow $\frac{3}{4}$ of an inch each month for a year. How many inches did you grow in a year? If you are 3 ft. 6 inches now, how tall are you at the end of the year?

8. Maria knows there are 24 hours in one day and 7 days in one week. So, she figured out that there are 168 hours in one week. Is her answer reasonable? Explain why or why not.

9. Use the following information to answer the following 2 questions. You are going on a three-day camping trip in the Grand Crayon. The chart shows the weights of some equipment you may need. Each person must take at least 2 water canteens and 3 food tins on the trip.

Equipment	Weight (lb)
water canteen	1
food tin	2
compass	1
shovel	5
binoculars	3
tent	8
chair	10
pillow	2
extra clothes	7
cooking pots/pans	30
sleeping cushion	4

10. You are going to hike alone & carry a backpack. The backpack can hold up to 25 lbs. What equipment will you take on the trip? Remember what you have to take.

11. You and 4 friends are taking a donkey on the trip. The donkey can carry 180 lbs. You will not take backpacks. You will need 2 tents. What equipment will you take on this trip?

12. You need $2\frac{1}{2}$ cups of raisins for a recipe. If you want to double the recipe, how many cups of raisins will you need?

DRAW A MODEL

WRITE THE EQUATION THAT REPRESENTS YOUR MODEL

13. Ben has 4 jars that he wants to fill with pennies. If he puts 231 pennies in each jar, how many pennies does he have all together?

14. $3 \times 1,789$.

15. a.) Find the product of 6 and 4,296

b.) Explain how you would estimate to check if your answer is reasonable.

16. Write & solve your own problem multiplying a 4-digit by 1-digit number with a product between 8,000 and 9,000.

17. Four friends bought a present for Joan which was \$36. How much less would each friend pay if 6 friends shared the cost equally rather than 4?

18. Solve 23×46

19. Use mental math to multiply:

a.) $30 \times 70 =$

b.) $600 \times 7 =$

c.) $500 \times 30 =$

d.) $40 \times 50 =$

20. To win a game, you need a product that is as close to 1,600 as possible. You can choose 2 factors from the numbers 18, 42, 56, and 81. Which numbers can you select so that the product is closest to 1,600?

21. Miss Smith has 12 weeks to practice for a running race. Over the course of one week, she plans to run 17 miles. How many miles will Miss Smith run all together?

22. There are 52 weeks in 1 year. How many weeks are in 12 years?

23. Dave plans to tile his floor. He wants to buy 25 black tiles and 23 white tiles. Each tiles costs \$16. How much money will it cost Dave to tile his floor?

24. Jim has 3,000 tickets for rides at the school carnival. Jim needs to pack small plastic bags with 8 tickets in each bag. About how many bags will he need?

25. Jay has 147 trophies and 4 shelves. He wants to put the same number of trophies on each shelf. How many trophies will be on each shelf? How many trophies will be left over?

30. Solve:

$$417 \div 8 = \underline{\hspace{2cm}}$$

$$769 \div 3 = \underline{\hspace{2cm}}$$

31. Max skated $\frac{2}{5}$ of a mile. Carol skated $\frac{3}{5}$ of a mile, and Pat skated $\frac{1}{2}$ of a mile. Write these distances in order from least to greatest. Explain how you decided.

32. Alicia wants to cut this board in 4 equal parts. She cut off the shaded part first. Did Alicia cut off $\frac{1}{4}$ of the board? Explain.



33.) List all the factors of 36

Addition

Find the sum of the two numbers in each problem.
Show all work.

$$\begin{array}{r} 652 \\ + 345 \\ \hline \end{array}$$

$$\begin{array}{r} 203 \\ + 525 \\ \hline \end{array}$$

$$\begin{array}{r} 726 \\ + 268 \\ \hline \end{array}$$

Example:

$$\begin{array}{r} 11 \\ 448 \\ + 188 \\ \hline 636 \end{array}$$

Decimal Addition

Remember to line up the decimals before adding. Bring the decimal straight down in your answer.

$$\begin{array}{r} \$7.75 \\ + \$1.46 \\ \hline \end{array}$$

$$\$51.40 + \$2.86$$

$$\$12.74 + \$8.25$$

Subtraction

Find the difference between the two numbers in each problem. Show all work.

$$\begin{array}{r} 407 \\ - 198 \\ \hline \end{array}$$

$$\begin{array}{r} 7,007 \\ - 2,426 \\ \hline \end{array}$$

$$\begin{array}{r} 313 \\ 743 \\ - 218 \\ \hline 525 \end{array}$$

Example:

$$\begin{array}{r} 3414 \\ - 1218 \\ \hline 525 \end{array}$$

$$\begin{array}{r} 33,838 \\ - 1,497 \\ \hline \end{array}$$

$$80,401 - 4,423$$

$$7,589 - 94$$

Multiplication

Find the product of the two numbers in each problem. Show all work.

$$\begin{array}{r} 605 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 432 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 384 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 3710 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 4851 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 1028 \\ \times 5 \\ \hline \end{array}$$

Division

Find the quotient in each problem.

$$591 \div 7 =$$

$$264 \div 12$$

$$2815 \div 4$$

Round to the nearest...

	<u>Ten Thousand</u>		<u>Thousand</u>		<u>Hundred</u>
	16,221		533,657		99,054

Adding Fractions and Mixed Numbers

Add the following fractions. Make sure you have common denominators before adding. Remember, you only add the numerator (top number) and you keep the denominator (bottom number) the same! Simplify your final answers.

$$\frac{6}{10} + \frac{3}{10} =$$

$$2\frac{3}{8} + 1\frac{2}{8} =$$

$$\frac{1}{9} + \frac{5}{9} =$$

$$\frac{1}{12} + 1\frac{2}{12} =$$

Subtracting Fractions

Subtract the following fractions. Make sure you have common denominators before subtracting. Remember, you only subtract the numerator (top number) and you keep the denominator (bottom number) the same! Simplify your final answers.

$$\frac{5}{6} - \frac{3}{6} =$$

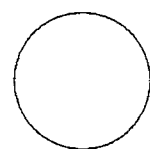
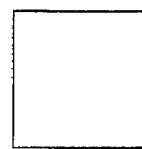
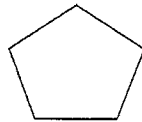
$$2\frac{8}{12} - 1\frac{3}{12} =$$

$$\frac{7}{10} - \frac{2}{10} =$$

$$3\frac{4}{5} - \frac{1}{5} =$$

Geometry-Who am I?

- Use the following shapes to answer the questions below.



I am a 2 dimensional shape that has four sides. I have four 90 degree angles. I have two sets of parallel lines. I also have two sides that are one length, and my other two sides are a different length.

Who am I? _____

I am a 2 dimensional shape that has three acute angles. All of my sides are the same length. I have no parallel sides.

Who am I? _____

I am a 2 dimensional shape that has four sides. I have two obtuse angles and two acute angles. I have two different sets of parallel sides. I also have two sides that are one length, and my other two sides are a different length.

Who am I? _____

I am a 2 dimensional shape that has 5 obtuse angles. I do not have any sides that are parallel.

Who am I? _____

I am a 2 dimensional shape that has four 90 degree angles. I have four sides that are all the same length. I have two different sets of parallel lines.

Who am I? _____

I am a 2 dimensional shape. My perimeter is also known as a circumference.

Who am I? _____