

Make It a
Mathnasium Summer!

PEOTONE JUNIOR

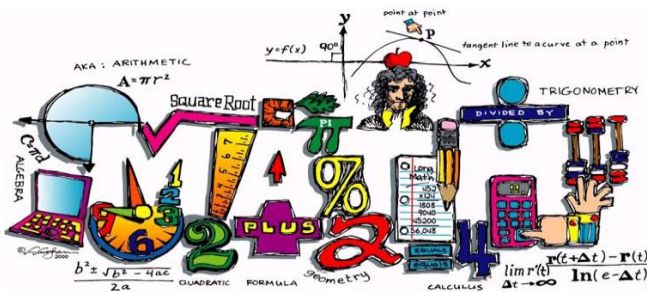
HIGH SCHOOL

6TH GRADE

SUMMER MATH

PACKET

Summer Math Packet



Hooray! You have completed the fifth grade and are about to enter your first year of Junior High!

In this summer math packet you will find various problems that you should already know how to solve as you get ready to enter into the sixth grade. If you get stuck on a particular concept, there are video links located at the bottom of almost every page. If you go to the provided link, you will find a short video explaining the particular concept and how to solve problems involving that concept. **These problems should be completed without the use of a calculator and all work must be shown in order to receive full credit.** The summer math packet will be due when you return from summer break. Do your absolute best and good luck! See you next year!

Concepts	Completed (X)
1. Adding and Subtracting Whole Numbers	_____
2. Multiplying and Dividing Whole Numbers	_____
3. Word Problems - Whole Numbers	_____
4. Adding and Subtracting Fractions	_____
5. Adding and Subtracting Mixed Numerals	_____
6. Word Problems - Fractions	_____
7. Adding and Subtracting Decimals	_____
8. Multiplying and Dividing Decimals	_____
9. Word Problems- Decimals	_____

Adding and Subtracting Whole Numbers

1.
$$\begin{array}{r} 234 \\ + 678 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 4726 \\ + 3261 \\ \hline \end{array}$$

3. $792 + 456$

4. $9284 + 4683$

5. $4358 + 509 + 2935$

6.
$$\begin{array}{r} 7743 \\ - 295 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 4702 \\ - 1604 \\ \hline \end{array}$$

8. $563 - 429$

9. $9174 - 238$

10. $73261 - 43758$

Multiplying and Dividing Whole Numbers

1.
$$\begin{array}{r} 736 \\ \times 8 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 949 \\ \times 6 \\ \hline \end{array}$$

3. $838 \times 58 = \underline{\hspace{2cm}}$

4. $372 \times 46 = \underline{\hspace{2cm}}$

5. $639 \div 8 = \underline{\hspace{2cm}}$

6. $8503 \div 5 = \underline{\hspace{2cm}}$

$$8 \overline{)639}$$

$$5 \overline{)8503}$$

7. $5626 \div 97 = \underline{\hspace{2cm}}$

8. $1890 \div 63 = \underline{\hspace{2cm}}$

$$\overline{\hspace{2cm}}$$

$$\overline{\hspace{2cm}}$$

Need help with the long division? Check out this video:

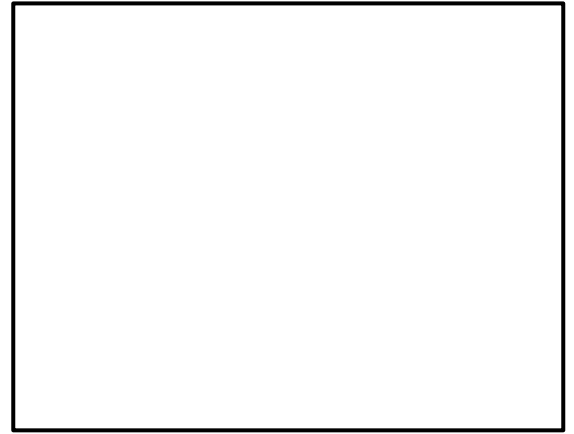
www.khanacademy.org/math/arithmetic/multiplication-division/long_division/v/dividing-by-a-two-digit-number

Word Problems – Whole Numbers

Remember to label your answers!

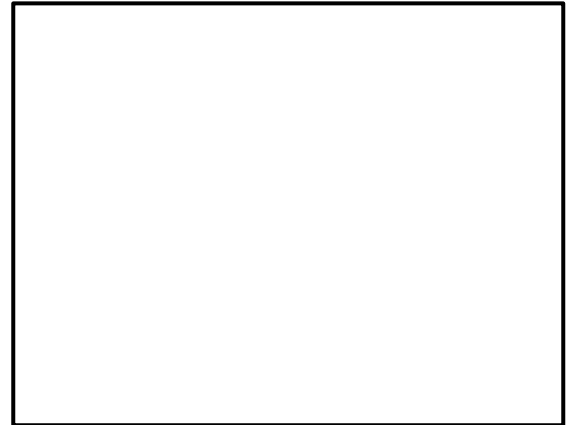
1. Tom's grandfather has 126 baseball cards in his collection. If the grandfather gives the same number of cards to Tom and his two sisters, how many cards does each sibling get?

Answer = _____



2. There are 29 teams in the state trivia tournament. If each team has 24 players, how many players are there total?

Answer = _____



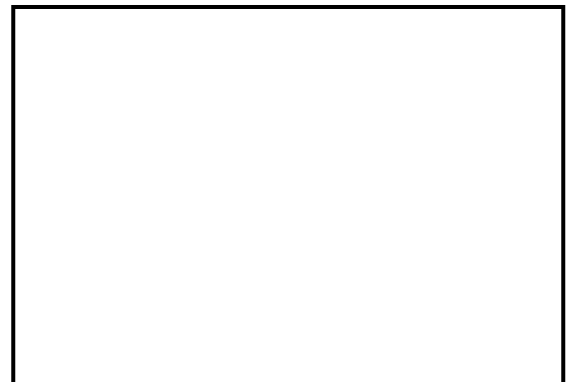
3. Anna's apple orchard grew 750 apples in the past two months. 296 of those apples were grown this month. How many apples were grown last month?

Answer = _____



4. There were 746 people riding on a train. 351 more people got on at the next station. Another 285 people were too late to get on. How many people were riding the train then?

Answer = _____



Adding and Subtracting Fractions

1. $\frac{7}{11} + \frac{2}{11} =$ _____

2. $\frac{5}{9} - \frac{2}{9} =$ _____

3. $\frac{7}{8} + \frac{2}{5} =$ _____

4. $\frac{7}{8} - \frac{5}{12} =$ _____

5. $\frac{8}{9} + \frac{6}{7} =$ _____

6. $\frac{9}{10} - \frac{5}{6} =$ _____

7. Ms. Vickroy assigned the problem: $\frac{5}{12} + \frac{3}{8}$. Three of her students' responses are below. Who completed the problem correctly? What common mistakes did the other two students make?

Sue

$$\begin{aligned} \frac{5}{12} + \frac{3}{8} &= \frac{8}{20} \\ &= \frac{2}{5} \end{aligned}$$

Jim

$$\begin{aligned} \frac{5}{12} + \frac{3}{8} &= \frac{10}{24} + \frac{9}{24} \\ &= \frac{19}{24} \end{aligned}$$

Bob

$$\begin{aligned} \frac{5}{12} + \frac{3}{8} &= \frac{30}{72} + \frac{27}{72} \\ &= \frac{57}{72} \end{aligned}$$

Adding and Subtracting Mixed Numerals

1. $18\frac{7}{11} + 9\frac{2}{11} =$ _____

2. $5\frac{7}{8} - 2\frac{3}{8} =$ _____

3. $4\frac{5}{6} + 17\frac{2}{5} =$ _____

4. $6\frac{5}{8} - 4\frac{3}{7} =$ _____

5. $6\frac{7}{8} + 5\frac{1}{6} =$ _____

6. $7\frac{3}{4} - 6\frac{7}{12} =$ _____

7. $12\frac{5}{7} + 7\frac{3}{4} =$ _____

8. $5\frac{7}{10} - 2\frac{7}{15} =$ _____

Word Problems – Fractions

Remember to label!

- 1.** Courtney spent $1\frac{2}{3}$ hours studying for her big science test. She spent $\frac{2}{3}$ of an hour finishing her writing assignment and $\frac{1}{4}$ of an hour playing outside. How much time did she spend overall on the three activities?

Answer: _____

- 2.** Kennedy made $12\frac{3}{8}$ cups of tea. She and her friends drank $7\frac{1}{4}$ cups. How much was left?

Answer: _____

- 3.** Zoe bought a bamboo plant that was $4\frac{1}{2}$ feet high. When she got it home she cut $3\frac{1}{6}$ feet off of it. How tall was the plant after she cut it down?

Answer: _____

- 4.** Emily walked $5\frac{1}{6}$ miles in the morning and another $3\frac{3}{5}$ miles in the afternoon. What was the total distance she walked?

Answer: _____

Adding and Subtracting Decimals

Remember: The decimal points must be lined up!!

1.
$$\begin{array}{r} 6.54 \\ + 3.98 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 3.8 \\ 13.249 \\ + 2.68 \\ \hline \end{array}$$

3. $9.38 + 5.7$

4. $0.0134 + 0.87 + 7.587$

5. $32.47 + 49.6 + 2.475$

6.
$$\begin{array}{r} 66.32 \\ - 8.79 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 7.1 \\ - 3.58 \\ \hline \end{array}$$

8. $70.9 - 8.63$

9. $6 - 2.47$

10. $83.62 - 25.73$

Confused? Try watching this video:

www.khanacademy.org/math/arithmetic/decimals/adding_decimals/v/subtracting-decimals

Multiplying and Dividing Decimals

Reminder: You must show **ALL WORK** on every page to receive credit!
(a.k.a. no calculators!!!)

1. $8.06 \times 0.8 =$ _____

2. $76.4 \times 0.36 =$ _____

3. $1.253 \times 38 =$ _____

4. $58.9 \times 0.038 =$ _____

5. $46.2 \div 6 =$ _____

6. $9.88 \div 4 =$ _____

7. $73.28 \div 1.6 =$ _____

8. $1.092 \div 0.26 =$ _____

Stuck on the division of decimals? Watch this video -

www.khanacademy.org/math/arithmetic/decimals/dividing_decimals/v/dividing-decimals

Word Problems – Decimals

Remember to label answers!

1. Sophie buys her mother a bunch of flowers for \$12.95 and her brothers some candy for \$2.76. If she has \$7.83 left how much did she start with?

Answer = _____

2. A student earns \$11.75 per hour for gardening. If she worked 21.5 hours this month then how much did she earn?
Round to the nearest cent!

Answer = _____

3. A member of the school track team ran for a total of 232.2 miles in practice over 36 days. How many miles did he average per day?

Answer = _____

4. The Great Western Circus buys 100 pound quantities of cotton candy. On day one of the circus, they sold 21.66 pounds of cotton candy, and on day two, they sold 34.57 pounds of cotton candy. How much cotton candy in pounds was left over to sell on day three?

Answer = _____

Whole Numbers

1248	17,112	1097	3098	58	696
29,503	79 R 7	7802	5694	42	912
48,604	454	7448	5888	30	134
170 R13	7987	8936	13,967	1700 R 3	

Fractions

$22\frac{7}{30}$	$1\frac{11}{40}$	$5\frac{1}{8}$	$2\frac{11}{56}$	$2\frac{7}{12}$	$\frac{1}{15}$	$\frac{11}{24}$
$1\frac{1}{3}$	$8\frac{23}{30}$	$19\frac{5}{8}$	$3\frac{7}{30}$	$1\frac{47}{63}$	$\frac{1}{3}$	
$3\frac{1}{2}$	$12\frac{1}{24}$	$27\frac{9}{11}$	$1\frac{1}{6}$	$20\frac{13}{28}$	$\frac{9}{11}$	

Decimals

57.53	252.63	2.47	84.545	6.448	19.729
43.77	27.504	3.52	47.614	57.89	2.2382
23.54	8.4704	6.45	10.52	79.53	24.879
15.08	45.8	3.53	4.2	7.7	62.27

Some answers are not used!