



MATH SUMMER PACKET

TURN OF RIVER MIDDLE SCHOOL



WELCOME TO 6TH GRADE !

Dear Incoming Sixth Grader,

Welcome to Sixth Grade! We have created this packet of questions and worksheets to help you exercise your math muscles over the summer months. Your Math teacher will collect this packet the first week of school. Wow! What an easy way to earn a project grade in the first marking period. The first quiz will follow the review of this packet.


All students are expected to complete this packet.

Please have a safe and enjoyable summer. We look forward to seeing you in August.

Math Summer Packet Websites

Our most important website is for the "Connected Math" series used in all Middle Schools.

<http://www.pearsonschool.com/index.cfm?locator=PS1yJe>

CONNECTED  MATHEMATICS 3

**Explore the interactive content for
Connected Mathematics 3!
Create your own trial account for
the full product experience.**

Launch your experience with a guided tour of our exciting new technology for CMP3!
Pearson highly recommends completing the guided tour before exploring the LIVE technology! ▶

Explore Teacher Place

Summarize your CMP3 technology experience by watching these informative videos! ▶

Explore Student Place

Here you will find a complete list of the online materials that tie in with the math you are learning.

Sites for supporting your work this summer with the Summer Math Packet.....



Listed below are some of the most useful math sites for students, teachers, and parents to access in exploring middle school math concepts. They are constructive, informative, and fun. The technology driving these sites is amazing. Check out these sites with your parents and friends.



Cool Math

<http://cte.jhu.edu/techacademy/web/2000/heal/mathsites.htm>

links to more than a hundred sites for making math fun, including Games, Puzzles, Problems, Brain Teasers word problems, useful everyday math, algebra and pre-algebra, geometry, calculus, probability and statistics, and more.

Math is Fun

<http://www.mathsisfun.com/>

Math explained in easy language, plus puzzles, games, quizzes, worksheets and a forum. For K-12 kids, teachers and parents. excellent source for supporting learning of middle school math; concepts, puzzles, worksheets, games, and an interactive dictionary

Jenny Eather's A Maths Dictionary for kids

<http://www.amathsdictionaryforkids.com/>

An up-to-date interactive, animated **maths dictionary** with over 600 common **math** terms and **math** words explained in simple language. **Math** glossary with **math** definitions, and math words in simple language.

Math.com - World of Math Online

<http://www.math.com/>

Free **math** lessons and **math** homework help from basic **math** to algebra, geometry and beyond. Students, teachers, parents, and everyone can find solutions to their **math problems**.

Kathy Schrock's Guide for Educators - Mathematics Resources

<http://school.discoveryeducation.com/schrockguide/math.html>

Tons of organized links to **sites to support** all levels of **math** instruction. Includes standards-aligned materials for the teaching of **middle school math**

Mathsnet

<http://www.mathsnet.net>

Full of hands-on activities and manipulatives that help to explain levels of geometry. Take the time to explore all this site has to offer. Includes puzzles, and game activities.

Superkids

<http://www.superkids.com/aweb/tools/logic/>

A large variety of math games of logic and reasoning

Homeschool Math

<http://www.homeschoolmath.net/online/fractions.php>

A site with other accessible sites for all areas of middle school math skills, but fractions in particular. Includes videos and tutorials.

Math Playground

<http://www.mathplayground.com/mathvideos.html>

Offers math videos on a variety of middle school math concepts; includes logic puzzles and word problems. Lets you play with numbers to give your brain a workout.

Math Drills

<http://www.math-drills.com>

An excellent for reinforcement and drills on various topics of middle school math; includes number sense and pre-algebra drills. Includes seasonal math, flash cards, and graphing paper

The Exploratorium

<http://www.exploratorium.edu/>

Not just a museum, it's an ongoing exploration of science, art, and human perception, which somehow involves math concepts at a higher order of thinking. Interactive activities. Like going on a trip to San Francisco

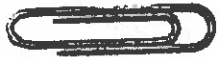
For a math site that provides lesson type material you may go to:

- aaamath.com
- purplemath.com
- math.com
- mathgoodies.com

For a math site that gives you interactive math activities (virtual manipulative) go to:

- nlvm.usu.edu
- mathplayground.com

Which is the best estimate of the length of this paper clip?



- 3 centimeters
- 3 millimeters
- 3 kilometers
- 3 meters

What is the value of m in this equation?

$$\frac{m}{10} = 5$$

- 2
- 5
- 15
- 50

Below is a number written in expanded notation.

$$8,000 + 50 + 3$$

What is another way to express this number?

- 85,003
- 8,503
- 8,053
- 8,035

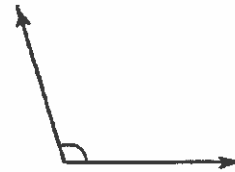
Hayden spent $\frac{6}{9}$ of his money on a new pair of sneakers. What is another way to express $\frac{6}{9}$?

- $\frac{1}{3}$
- $\frac{1}{4}$
- $\frac{2}{3}$
- $\frac{3}{4}$

To estimate the product of $3\frac{1}{9} \times 61$, Reynaldo multiplied 3×60 . Would Reynaldo's estimate be more or less than the actual product?

- less, because he rounded both numbers down
- more, because he rounded both numbers down
- less, because he rounded both numbers up
- more, because he rounded both numbers up

What is the approximate measure of the angle shown below?



- 5°
- 75°
- 105°
- 175°

Which decimal means the same as $4\frac{2}{5}$?

- 4.2
- 4.25
- 4.4
- 4.5





Mrs. Wilson was charged \$100 for every day she spent at the Milbrook Hotel. Which shows this same ratio?

- \$300 for every 2 days
- \$350 for every 3 days
- \$450 for every 4 days
- \$500 for every 5 days

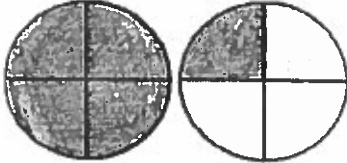
A house in Devon's neighborhood sold for 248,750 dollars. What digit is in the hundred thousands place of 248,750?

- 2
- 4
- 7
- 8

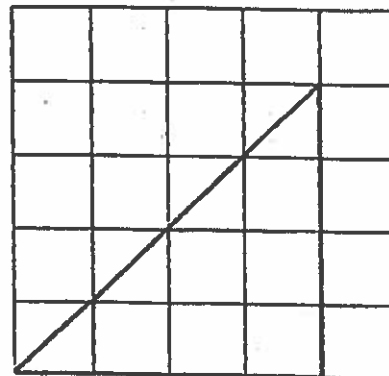
Which of these dashed lines shows a line of symmetry?

- 
- 
- 
- 

What decimal represents the part of this diagram that is shaded?

- 1.25
 - 1.4
 - 1.5
 - 1.75
- 

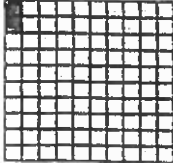
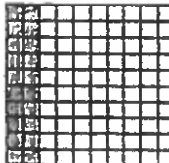
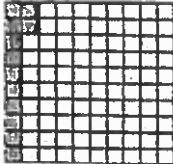
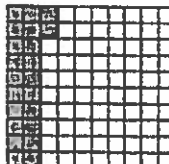
What is the best estimate of the area of the triangle shown below?



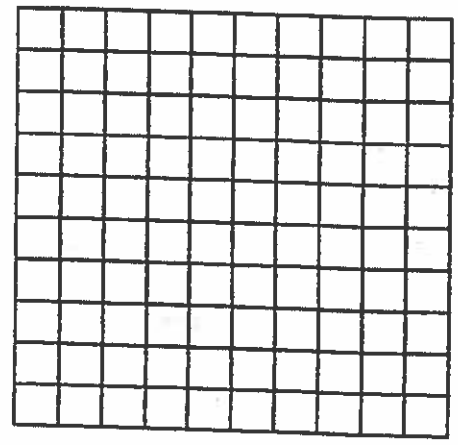
Each $\square = 1$ square unit

- 6 square units
- 8 square units
- 10 square units
- 16 square units

Which diagram below is exactly 2% shaded?

- 
- 
- 
- 

Shade in 0.89 of this figure.



Each $\square = 0.01$

Mrs. Young buys 47 staplers for her office. Each stapler costs \$10.49, including tax.

Is Mrs. Young's estimate of \$300 a reasonable estimate of the total cost of the 47 staplers? _____

Show your work or explain if this is a reasonable estimate.

Write a story problem that can be solved using this equation.

$$\frac{3}{4} + \frac{1}{4} = \square$$

6

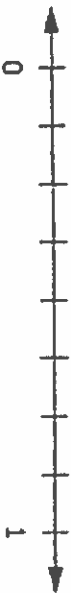
Robert makes the following statement.

“When comparing two fractions with a numerator of 1, the fraction with the bigger denominator is greater.”

Drag each fraction to the correct location on the number line to find out if Robert's statement is true.

- $\frac{1}{2}$
- $\frac{1}{4}$
- $\frac{1}{8}$

Drag



Is Robert's statement true?

- Yes
- No

6

Kate waters the garden every 3 days and weeds it every 4 days.

She does both on April 2nd.

What is the next date that she will both water and weed her garden?

Select that date on the calendar.

APRIL						
Sun	Mon	Tues	Wed	Thu	Fri	Sat
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

8

At Maria's school, 6 classes are going on a field trip. Each class has 26 students and 1 teacher. Each bus holds a maximum of 48 people. The school requires 3 buses for the field trip.

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 0

Delete

Carefully read Maria's argument:

- A. Maria says that 3 buses are not enough.
- B. She argues that 3 buses will hold a maximum of 144 people.
- C. The classes need space for 156 people.
- D. The school needs to order 1 more bus.

Click to select the statement in Maria's argument that has incorrect reasoning or inaccurate calculations.

Drag the numbers from the palette into boxes to create the number that will correct the statement you choose.

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9

Connor is buying tickets to a play. The play he and his friends want to see costs \$4.75 per ticket. Connor has \$26.00 in his pocket. What is the greatest number of tickets Connor can buy?

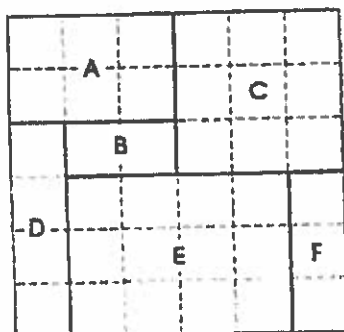
- (A) 4
- (B) 5
- (C) 6
- (D) 7

LESSON 6

Carl's Carpet

Carl's parents said they would redecorate Carl's bedroom. Carl wants the floor to be covered with separate sections of red, blue, and white carpet, and he wants the sections arranged so the same color isn't used in two areas that touch.

Carl's parents told him to draw a picture of how he wants the carpet to look and to figure out the cheapest way to use the three colors. They said they'd decide whether they would agree to his plan after they saw it. Carl drew a plan for the carpet on grid paper. Each small square is one square yard.



Red = \$4.00 per sq yard
 Blue = \$5.00 per sq yard
 White = \$6.00 per sq yard

What colors should be used in each of the six areas A–F?
 How much will it cost to carpet the entire room?



Explain It!

Grandpa Frank likes to cook for his family. The chart below shows the number of hours he spent cooking dinner each day this week.



Time Spent Cooking

Day	Time Spent Cooking (in hours)
Monday	$1\frac{1}{8}$
Tuesday	$\frac{1}{2}$
Wednesday	1
Thursday	$\frac{5}{8}$
Friday	$1\frac{1}{2}$

Which list shows the days in order from the least time spent cooking to the most time spent cooking?

- Tuesday, Thursday, Wednesday, Monday, Friday
- Tuesday, Thursday, Wednesday, Friday, Monday
- Wednesday, Tuesday, Thursday, Monday, Friday
- Wednesday, Thursday, Tuesday, Friday, Monday

Each of the four candidates running for school president is going to give a speech on Friday. Alex will not give the third speech. Bonnie will give her speech immediately before Cathy gives her speech. Dayshawn will give the second speech.

In what order will the candidates give their speeches?

- Alex, Bonnie, Cathy, Dayshawn
- Alex, Dayshawn, Bonnie, Cathy
- Bonnie, Dayshawn, Cathy, Alex
- Bonnie, Cathy, Dayshawn, Alex

At the beginning of the year, 1,086 students were enrolled at Central High School. If exactly 100 more students enroll next year, what will be the total number of students enrolled?

- 1,087
- 1,096
- 1,186
- 2,086

Which type of polygon has exactly 5 sides?



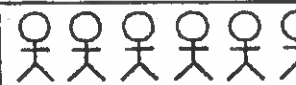
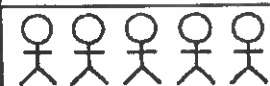
- Quadrilateral
- Hexagon
- Octagon
- Pentagon

Of the 35 customers at a diner, 17 ordered burgers. What is the ratio of customers who ordered burgers to total customers at the diner?

- 17 to 35
- 17 to 18
- 18 to 35
- 35 to 17

This pictograph shows the number of people who attended four different orchestra concerts last year at Garrison Middle School.

Attendance at Orchestra Concerts

Concert	Number of People Attending
Fall Concert	
Winter Concert	
Spring Concert	
End-of-Year Concert	

Key: Each  represents 20 people

Which conclusion can be drawn from this graph?

- More people attended the fall concert than any other concert.
- At least 80 people attended each of the four concerts.
- About 20 more people attended the winter concert than the fall concert.
- The end-of-year concert had the lowest attendance of any concert.