

University School of the Lowcountry

Intermediate School Summer Math

5th grade math is going to be AMAZING! Let's make sure you're set-up for success from the very start. Practice all of your math facts over the summer! Mastery of facts allows us to dive into higher level concepts I am going to introduce in 5th grade.

All students entering 5th grade in August are expected to know:

- Addition and subtraction "fact families" through 20.
For example, students should know that: $6 + 14 = 20$, $14 + 6 = 20$, $20 - 14 = 6$, and $20 - 6 = 14$.
- Multiplication and division "fact families" through 12.
For example, students should know that $7 \times 9 = 63$, $9 \times 7 = 63$, $63 \div 7 = 9$, and $63 \div 9 = 7$.
- Using Area Model, Partial Product or Standard Algorithm for multi-digit multiplication and division. (Standard Algorithm is the preferred method.)

Resources:

Flash Cards are great for road trips!

Printables: [Math Worksheets](#)

[Khan Academy](#)

[Quizlet](#)

[Prodigy](#)

[Math Playground](#)

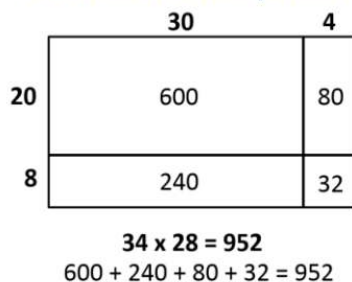
[Math Mammoth](#)

[XtraMath](#)

[Academic Skill Builders](#)

Apps: 7 Minute Math Genius Mental Math Cards Games & Tips

Area Model for Multiplication



Partial Products Algorithm for Multiplication

$$\begin{array}{r} 34 \\ \times 28 \\ \hline 600 \text{ (product of } 30 \times 20) \\ 240 \text{ (product of } 30 \times 8) \\ 80 \text{ (product of } 4 \times 20) \\ + 32 \text{ (product of } 4 \times 8) \\ \hline 952 \end{array}$$

Standard Algorithm for Multiplication

$$\begin{array}{r} 34 \\ \times 28 \\ \hline 272 \\ + 680 \\ \hline 952 \end{array}$$

Standard Algorithm for Division

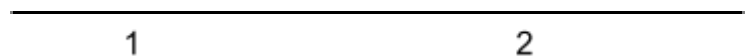
$$\begin{array}{r} 48 \text{ R}24 \\ 32 \overline{)1560} \\ \underline{-128} \\ 280 \\ \underline{-256} \\ 24 \end{array}$$

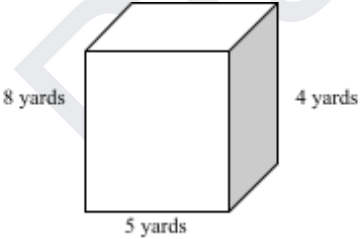
Complete this packet and turn in on the first day of Math Class.

<p>What is the PLACE VALUE of the underlined digit?</p> <p>8,3<u>8</u>4,950 <u>3</u>,948,584</p>	<p>Write 7,004,490 in each form.</p> <p>Word:</p> <p>Expanded:</p>
<p>Find the Difference.</p> <p>84,023 – 76,289</p>	<p>Find the Quotient.</p> <p>7,694 ÷ 5</p>
<p>There were 27,376 animals at the animal shelter. Last week, 8,476 animals were adopted. How many animals were left at the animal shelter?</p>	<p>Last Summer, 54,849 people went on a vacation. This year it is expected that an additional 9,499 people will take a summer vacation. How many people will be taking a summer vacation in all?</p>
<p>William spent $3\frac{1}{2}$ hours playing his video game on Monday. He spent another $2\frac{1}{2}$ hours playing on Wednesday. How many hours did he play altogether?</p>	$\begin{array}{r} 4\frac{3}{4} \\ + 2\frac{3}{4} \\ \hline \end{array}$ $\begin{array}{r} 6\frac{3}{7} \\ - 1\frac{6}{7} \\ \hline \end{array}$
<p>Use >, <, or = to compare the decimals below.</p> <p>0.05 _____ 0.5 0.34 _____ 0.4</p>	<p>Solve.</p> $\frac{8}{15} \times 6 =$
<p>If you have 4 pints of water, how many cups do you have?</p>	<p>What are the side lengths of the rectangle?</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> <p>Area = 64 in² Perimeter = 32 in</p> </div>

Students in gym class ran around the track. The data chart shows how many miles the students ran. Create a line plot to display this data.

Student Miles	
Miles	# of students
$\frac{3}{4}$ mile	1
1 mile	4
$1\frac{1}{8}$ miles	3
$1\frac{3}{8}$ miles	1
$1\frac{1}{2}$ miles	2
2 miles	3

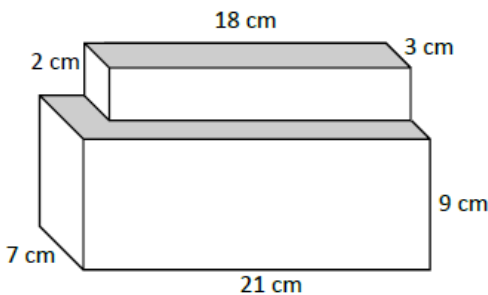


<p>Round 4,938,503 to the nearest...</p> <p>100:</p> <p>1,000:</p> <p>10,000:</p>	<p>Compare the numbers using >, <, or =.</p> <p>57,493 _____ 111,111</p> <p>7,594,002 _____ 7,594,020</p>
<p>Find the Sum.</p> <p>389,949 + 99,485</p>	<p>Find the Product.</p> <p>875 x 38</p>
<p>A football player threw for 2,464 yards in the first 8 games of the season. If he threw for the same number of yards per game, how many yards did he throw for in each game?</p>	<p>If there are 365 days in a year, how many days are there in 25 years?</p>
<p>Sandra's ice popsicle is $8\frac{1}{5}$ inches long. She eats $6\frac{4}{5}$ inches. How long is her popsicle now?</p>	$\begin{array}{r} 5\frac{5}{6} \\ + 3\frac{4}{6} \\ \hline \end{array}$ $\begin{array}{r} 6\frac{7}{10} \\ - 4\frac{9}{10} \\ \hline \end{array}$
<p>Convert.</p> <p>$\frac{15}{100} =$ $0.06 =$</p>	<p>In one hour, Carla can read $\frac{2}{8}$ of her book. How much of her book will she finish in 3 hours?</p>
<p>If your desk is 36 inches, how many feet is it?</p>	<p>What is the perimeter of a rectangle that has a length of 26 inches and a width of 18 inches?</p> <p>What is the area?</p>
<p>What is the volume of the prism below?</p> 	<p>What is the formula for finding perimeter, area, and volume?</p>

Andy wants to be able to do a 180 degree turn on his skateboard. He can now do a 120 degree turn. How many more degrees does he need to meet his goal?

A sprinkler rotates 43 degrees and then pauses. It then rotates another 43 degrees. How many degrees did it rotate in all?

Find the volume.



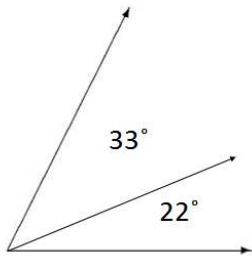
What are the factors of 30?

What are the factors of 45?

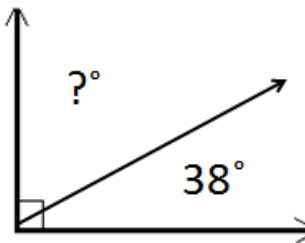
What are four multiples of 3?

What are four multiples of 27?

What is the total measurement of the two angles?



If the total measurement of the two angles is 90 degrees, what is the measurement of the missing angle?



Solve:

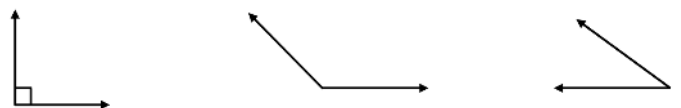
$$0.005 + 0.102 =$$

$$1.45 + 10.034 =$$

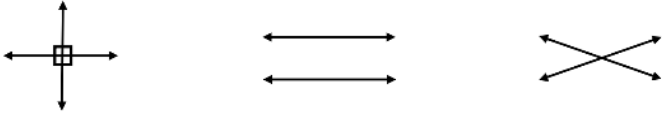
$$11.95 - 4.905 =$$

$$0.654 - 0.0564 =$$

Label these angles: obtuse, acute, or right.



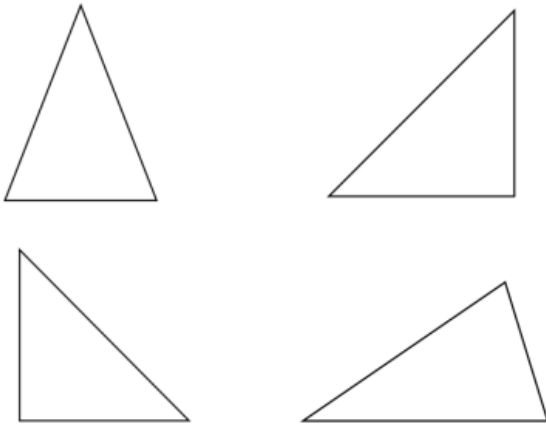
Label these perpendicular, intersecting, or parallel.



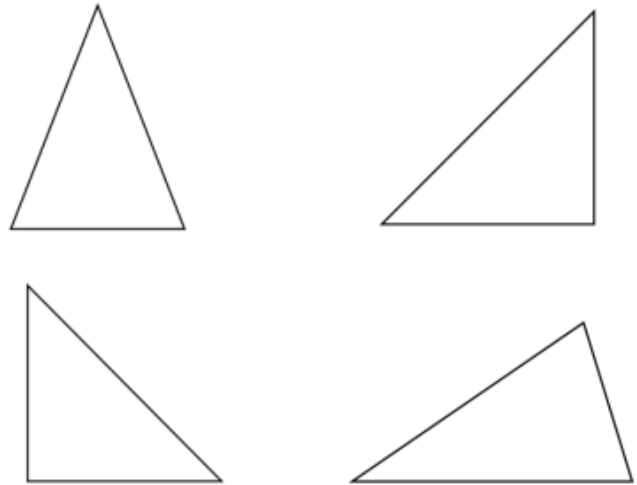
What is the average of this data set:

45, 50, 55, 54, 43, 40, 54

Label the congruent sides and angles of these shapes:



Label these triangles: equilateral, scalene or isosceles and right, acute or obtuse.



What is the greatest common factor of 15 and 21?

What is the greatest common factor of 72 and 60?

What are you looking forward to most this year in Math?