

Stratford GRADE 6 Summer MATH Menu 2021

Work on two or three of these activities each week and cross them off.

<p>Using all four of the digits 5, 6, 7, and 8, and any of the four operations (+, -, x, ÷), can you make the number 24? Can you make 36?</p>	<p>Create a Story Create a story context for $5 \div \frac{1}{6}$. Find your answer and then draw a picture to prove your answer is correct. Use multiplication to reason about whether your answer makes sense.</p>	<p>Logic Puzzle: There are two ducks in front of a duck, two ducks behind a duck and a duck in the middle. How many ducks are there?</p>	<p>Using the digits 1-9 at most one time each, fill in the boxes to make a whole number product. What strategy did you use to solve the problem?</p> $\square.\square \times \square.\square\square$	<p>Which One Doesn't Belong? (Ratios) Determine which ratio from the four below doesn't belong and justify your answer. Could there be a different answer?</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tbody> <tr> <td>$\frac{1}{20}$</td> <td>$\frac{20}{25}$</td> </tr> <tr> <td>$\frac{2}{3}$</td> <td>$\frac{5}{4}$</td> </tr> </tbody> </table>	$\frac{1}{20}$	$\frac{20}{25}$	$\frac{2}{3}$	$\frac{5}{4}$
$\frac{1}{20}$	$\frac{20}{25}$							
$\frac{2}{3}$	$\frac{5}{4}$							
<p>Using the digits 0-9 at most one time each, fill in the boxes so that each expression is simplified to a different odd number.</p> $\square \div (\square - \square)$ $\square + \square \times \square$ $\square - \square \div \square \times \square$	<p>Using all four of the digits 3, 4, 5, and 6, and any of the four operations (+, -, x, ÷), what is the largest number you can make?</p>	<p>Which 1 doesn't belong and why?</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tbody> <tr> <td>1 : 7</td> <td>2 : 14</td> </tr> <tr> <td>3 : 11</td> <td>7 : 49</td> </tr> </tbody> </table>	1 : 7	2 : 14	3 : 11	7 : 49	<p>Multiplication of large numbers Use the digits 1-9, at most one time each, to create two numbers that have a product as close to 500,000 as possible.</p>	<p>Using all four of the digits 1, 2, 3, and 4, and any of the four operations (+, -, x, ÷), can you make the number 13? Can you make 21?</p>
1 : 7	2 : 14							
3 : 11	7 : 49							
<p>Using the digits 1-9 at most one time each, fill in the boxes to make a whole number sum. Bonus: Make all whole numbers 1-9!</p> $\frac{\square}{\square} + \frac{\square}{\square} = \square$	<p>FINDING EQUIVALENT RATIOS Directions: Use the digits 1-9 to create 3 equivalent ratios. Each digit can only be used once.</p> $\frac{\square}{\square} = \frac{\square}{\square} = \frac{\square}{\square}$	<p>Exponents-Use the digits 0-9 to make as many equivalent equations as possible.</p> $\square^{\square} = \square^{\square}$	<p>Who am I? *3 digit number *odd *sum of my digits is 15 *all digits are odd *the order of my digits left to right is small to greatest *multiple of 7</p>	<p>Which 1 doesn't belong?</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tbody> <tr> <td>$\frac{1}{2}$</td> <td>$\frac{5}{3}$</td> </tr> <tr> <td>$\frac{2}{10}$</td> <td>$\frac{2}{5}$</td> </tr> </tbody> </table>	$\frac{1}{2}$	$\frac{5}{3}$	$\frac{2}{10}$	$\frac{2}{5}$
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<p>Equivalent Ratios-use the digits 1-9 at most 1 time to create equivalent ratios.</p> $\square:\square = \square\square:\square$	<p>Volume A rectangular prism has a volume of 144 cubic units and a base of 48 square units. What could the possible dimensions be?</p>	<p>I am a number that is a multiple of .25, greater than 2 and smaller than 4. Who am I? Find at least 3 possible answers.</p>	<p>Directions:Create a set of five positive integers from 1 to 20 that have the same mean, median, and range.</p>	<p>Which 1 doesn't belong?</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tbody> <tr> <td>$-\frac{1}{4}$</td> <td>40%</td> </tr> <tr> <td>$\frac{3}{2}$</td> <td>$\frac{1}{6}$</td> </tr> </tbody> </table>	$-\frac{1}{4}$	40%	$\frac{3}{2}$	$\frac{1}{6}$
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RELATED PERCENTAGES

Directions: Using the digits 0 to 9 as many times as you want, fill in the boxes to create a correct number sentence.

is 50% of
and 75% of

FRACTION DIVISION

Directions: Use the digits 0 through 9, without repeats, to solve the problem below.

$$\frac{\square}{\square} \div \frac{\square}{\square} = \frac{\square\square}{\square}$$

Mystery Number--

Clues-

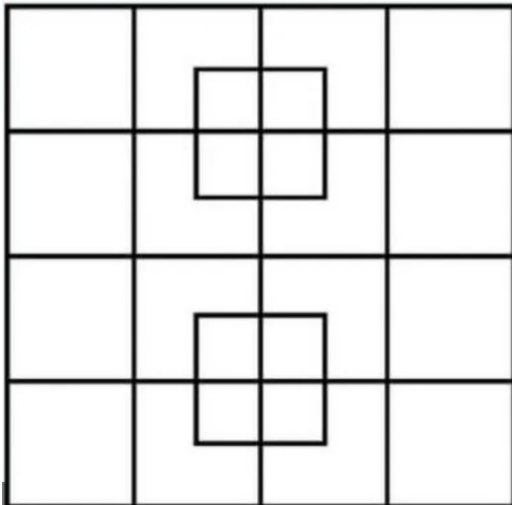
- My value is a square number.
- My value is less than 200.
- My value is even.
- My tens digit is equal to two more than the sum of my ones digit and my hundreds digit.

SUBTRACTING DECIMALS TO GET CLOSE TO 0

Directions: Using the digits 1-9, subtract two numbers to get a difference closest to 0.

$$\square.\square - \square.\square = \square.\square$$

How many squares can you find?



Smallest Possible LCM

Directions: Using the digits 0-9 at most once, fill in the boxes to make the smallest possible least common multiple.

$$A = \square\square$$

$$B = \square\square$$

$$C = \square\square$$