

Name: \_\_\_\_\_

Mental Math

— #1 —

☐ Start with the number 359.

359



☐ Add the number of inches in 2 feet.

8 5 5 7 4 3 8 3 3 9 (Circle your answer to double check you are correct.) \_\_\_\_\_

☐ Add half of 60.

2 6 3 4 9 3 4 1 3 2 \_\_\_\_\_

☐ Add 17.

4 4 3 0 5 5 6 0 8 5 \_\_\_\_\_

☐ Divide by 10.

6 6 4 3 1 6 7 4 4 8 \_\_\_\_\_

☐ Round to the nearest ten.

4 0 4 1 2 3 3 6 5 9 \_\_\_\_\_

☐ Add 20.

9 7 1 3 6 0 7 1 2 3 \_\_\_\_\_

☐ Divide by 10.

6 0 1 2 5 2 8 6 7 1 \_\_\_\_\_

☐ Add the number of ounces in 1 pound.

8 0 5 2 2 3 2 5 4 9 \_\_\_\_\_

☐ Divide that number in half.

3 2 1 1 1 2 8 4 2 0 \_\_\_\_\_

☐ Multiply by 3.

8 5 1 3 7 7 3 3 9 6 \_\_\_\_\_

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Find the way from START to END by passing through EVERY number that is a multiple of nine exactly ONCE. Cross off each box that is NOT a multiple of nine. Yes, that means you have to go through ALL the multiple of nine boxes. Wow! You are not allowed to go diagonally. Good luck!

START	270	414	864	432	594	532
369	936	504	819	495	243	482
972	927	828	378	630	694	983
203	552	835	577	972	216	45
955	667	830	189	450	513	9
565	187	972	297	18	594	684
244	873	99	248	756	81	603
198	279	36	585	819	927	783
333	360	288	443	540	441	883
385	377	947	11	525	117	END

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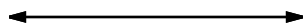
Hunter had 5 books in his backpack. When the backpack is empty, its mass is 1,000 g. With the books in it, the total mass is 10,600 g. What is the mass of the books?

Seventy-six percent of the people surveyed believe that students are not well prepared for international business. If 2,800 people were surveyed, how many believe students are not well prepared for international business?

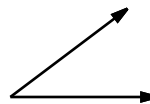
Ready to draw a face? First draw the eyes by drawing two right triangles. Now for the mouth. Draw a trapezoid for the mouth. Draw an octagon for the nose. Now have fun and finish the face!

Rose rode her bike for 15 minutes. She went 2.6 miles. What is her speed in miles per hour?

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What kind of angle is this?



What kind of angle is this?

On a number line, what is the number that is 5 spaces right of -1?

$$15 + -4 = \underline{\quad}$$

$$15 - 4 = \underline{\quad}$$

Rewrite  $11 - 5$

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

What kind of angle has a measure of  $180^\circ$ ?

Sketch an obtuse angle named  $\angle BCD$ .

Sketch a right angle named  $\angle EFG$ .

Multiply 4595 and 6.

$$\begin{array}{r} 861 \\ \times \quad 7 \\ \hline \end{array}$$

$$\begin{array}{r} 139 \\ \times \quad 21 \\ \hline \end{array}$$

$$\frac{32}{?} = \frac{8}{12}$$

Change to a percent.

$$\frac{626}{100}$$

$$\frac{1}{3} = \frac{?}{9}$$

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Write the reciprocal.

9

Write the reciprocal.

$\frac{5}{12}$

Write the reciprocal.

$\frac{17}{2}$

$$\frac{N}{39} = 32$$

$$4n = 24$$

$$9y = 36$$

Change  $\frac{7}{20}$  to a decimal.

Change  $\frac{1}{8}$  to a decimal.

$$\begin{array}{r} 6.4 \\ \times 80 \\ \hline \end{array}$$

$$\begin{array}{r} 9,323 \\ - 8,138 \\ \hline \end{array}$$

Find the difference between 592 and 92.

$$\begin{array}{r} 45,324 \\ - 30 \\ \hline \end{array}$$

Write as a decimal.  
One hundred seventy-eight thousandths

Write as a decimal.

$7\frac{4}{100}$

Write as a decimal.  
Twelve and sixty-four hundredths

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<p>Wendy went shopping for school supplies. She bought 12 pencils at 3 for \$1.25, 3 packages of notebook paper at \$1.22 each, and a notebook for \$6.60. How much did she spend in all?</p>	<p>Emma walked to the store in 15.3 minutes. She bought Band-Aids for \$0.55, gauze for \$1.29, and suntan lotion for \$2.89. She gave the clerk a \$10 bill. She left the store at 3:45 a.m. It took her 18.7 minutes to walk home. How much longer did it take her to walk home than it took to walk to the store?</p>	<p>Mrs. White purchased pizzas for the children who took part in the Marks School Science Fair. Each pizza cost \$8.35. Twenty-two students each ate <math>\frac{3}{4}</math> of a pizza, and 11 students each ate <math>\frac{1}{2}</math> of a pizza. How much did it cost to buy pizzas for the students?</p>
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$\begin{array}{r} 45 \\ + 41 \\ \hline \end{array}$	<p>Amy rolls two dice. She adds the numbers on the two dice. What is the chance of this sum being four?</p>	$8 \times 12 =$	$\begin{array}{r} 73 \\ - 11 \\ \hline \end{array}$
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<p>Maria rolls a die. What is the chance of her rolling a 6?</p> <p>_____</p>	$33 \div 11 =$	<p>The letters H and Y each have a line of symmetry. Name another letter between H and Y that has a line of symmetry.</p> <p>_____</p>
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<p>Rewrite these in increasing order of length:</p> <p>4 m, 427 mm, 489 km</p>	$8 \times 3 =$	$\begin{array}{r} 212 \\ + 272 \\ \hline \end{array}$
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<p>Write an equation to represent this:</p> <p>The sum of four and nine is thirteen.</p> <p>_____</p>	$\begin{array}{r} 447 \\ - 109 \\ \hline \end{array}$	$99 \div 11 = \underline{\hspace{2cm}}$
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<p>The letters F, G, J, L, N, P, Q, R, S, and Z do not have line symmetry. The rest of the letters in the alphabet do. Can you write someone's name where the complete name has line symmetry? Hint: You cannot use all of the letters. You could use B in a name, but M would not work.</p>	$27 \div 3 = \underline{\hspace{2cm}}$	$21 \text{ cm} = \underline{\hspace{2cm}} \text{ mm}$
	$10 \times 8 = \underline{\hspace{2cm}}$	

$40 \div 4 = \underline{\hspace{2cm}}$	$1 \text{ kg} = 1,000 \text{ g}$ $20 \text{ kg} = \underline{\hspace{2cm}} \text{ g}$	$532 + 393 = \underline{\hspace{2cm}}$
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$8 \times 7 = \underline{\hspace{2cm}}$	<p>Erin makes a basket for every two attempts that she makes. Ava needs four attempts to make a basket. Each basket is worth 2 points. If they each make 24 attempts, then what is the score?</p>	$7 \times 5 = \underline{\hspace{2cm}}$
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$16 \div 2 = \underline{\hspace{2cm}}$	$48 \div 6 = \underline{\hspace{2cm}}$
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<p>Ava rolls two dice. What is the chance of her rolling a 3 on one die and a 1 on the other die?</p> <p>_____</p>	<p>How many kilograms are in 5,000 grams?</p> <p>_____ kilograms</p>
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<p><math>28 \div 4 =</math> _____</p>	<p>Make a decimal number. Start with a zero and a decimal point. Then use these numbers: BANG, 7, 3, 6, and 8. Make three different decimal numbers. Put your three decimal numbers in order from largest to smallest.</p>
<p><math>11 \times 9 =</math> _____</p>	
<p><math>3 \times 9 =</math> _____</p>	

<p>Circle the addition property for <math>79 + 172 = 172 + 79</math>.</p> <p>associative property</p> <p>commutative property</p>	<p><math>24 \div 12 =</math> _____</p>	<p><math>10 \div 2 =</math> _____</p>

<p><math>(8 + 5) + 7 =</math></p>	<p>Three cards cost \$12. At that rate, what is the cost of 15 cards?</p>

<p>Mary and her little sister, Erin, both have birthdays on the same day. Mary is seven years old. Erin is five years old. Did you know that Mary was once double the age of Erin? How many years ago was that?</p>	<p><math>8,315 - 7,912 =</math> _____</p>
	<p><math>938 - 124 =</math> _____</p>



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7 • 6 • 0 • 2 • = • 0 • 3 • 1 • x • 9 • x • 2 • = • 1 • 8 • ÷ • 1  
6 • 1 • 7

Use the pieces above to help you fill in the runaway math puzzle.

1x=7

÷

÷1÷

4

=7x=2

4

0

=

2

÷

4

2

x0=0

÷

2

3=6

5

5

5

x

1=6

7

4

x8=56

x

x

0x=0

=

9÷9=

4

You can buy 3 fancy pens for \$6 at the store. At this rate, what would be the cost of fifteen fancy pens?

Can 876 be evenly divided by 3? Circle:  
876 is evenly divisible by 3  
876 is NOT evenly divisible by 3

120 ÷ 10 =

10 ÷ 5 =

What time is 16 hours after 3:00 a.m.?

8 x 3 =

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The grocery store sells 2 cases of Anne's Water for \$16. They also offer 3 cases of Cool Water for \$24. If you like both brands equally, then which brand of water is the better deal?

Which event will be the last to end?

Amanda has soccer practice that starts at 4:37 p.m. and lasts for 1 hour and 50 minutes.

Connor plans to ride his bike to Alex's house at 5:05 p.m. They will play video games for 1 hour and 35 minutes.

Jenna works at the mall. Her shift starts at 5:02 p.m. and will last 1 hour and 30 minutes.

Sara is doing some mental math. She picked a number from a hat. Then she added 3 to that number. She then multiplied the sum by 6. The result she got was 48. What number did Sara start with?

Ava picked a number from the hat and did the same thing, but her result was 18 less than Sara's result. What number did Ava start with?

Pam cannot decide which of the following two clubs to join, so she wants to pick the club with the most girls. Which club should she join?

The Earth Club has a total of 42 members. There are 6 more girls than boys.

The Gamer's Club has a total of 47 members. There are 3 more girls than boys.

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$$2 \times 2 = x^2$$

What is the value of x?

$$t - 10 + t = 38$$

What is the value of t?

$$0.5 (0.9 (0.5 + 3)) =$$

$$8 \times 2 + 2 + 5 \times 8$$

Rewrite  $\frac{19}{25}$  as a decimal.

If  $v = 8$  and  $c = -28$  then  
what is  $7v - 14c - 4c = ?$

What is the mode of the  
following number set?

76, 58, 76, 69, 76, 64, 57, 69,  
61, 75, 61, 69, 57, 73

Crazy Justin had pizza 25  
days in the month of  
October. What percent of  
the month did he have  
pizza?

The angles in a  
quadrilateral  
measure  $77^\circ$ ,  $100^\circ$ ,  $99^\circ$ ,  
and  $j^\circ$ . What is the  
value of j?

In what quadrant would  
you find the point  $(-12, -5)$ ?

Each side of a regular  
pentagon is 41.6  
centimeters. What is the  
perimeter?

Simplify.

$$\frac{20}{36} =$$

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$$3 \overline{) 21.78}$$

$$6 \overline{) 1.47966}$$

$$9 \overline{) 8979.3}$$

$$7 \overline{) 2961.7}$$

$$7 \overline{) 516.6}$$

$$9 \overline{) 5086.8}$$

67, 73, 79, 85,  
\_\_\_\_\_, 97, 103, 109

$$(14 + 8 + 4) =$$

$$8 \times 6 + 1 - 8 + 7$$

G, J, H, K, I, \_\_\_\_\_,  
J, M, K, N

$$3 + 4 \cdot 9 + 7$$






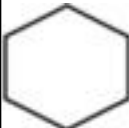





$$24 \div 3 - 4$$

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Each row, column, and box must have the numbers 1 through 6. The first box is done.

3	2	4	5		1
1	6	5			2
		6	1	2	4
		2			
			6		
	5				

Each row, column, and box must have 6 different pictures.

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Complete each pattern, using the same rule. Write what the rule is.

\_\_\_\_, \_\_\_\_, I, M, J, N, K, O, L, P, M, Q

J, K, K, L, L, M, M, N, N, O, O, \_\_\_\_

Complete each pattern. Write what the rule is.

117.6	107.8	98
88.2		68.6
58.8	49	
29.4	19.6	



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$\times$   
 $\times =$   
 $- \div$   
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