

Name: _____

Mental Math

— #1 —

◆ Start with the product of 5 and 9.

45



◆ Subtract 21.

7 5 9 7 2 4 6 0 2 6 (Circle your answer to double check you are correct.) _____

◆ Round to the nearest ten.

9 9 2 0 3 5 1 5 4 1 _____

◆ Add the number of inches in 1 foot.

7 3 2 4 9 9 8 6 5 3 _____

◆ Increase that number by 1.

4 4 3 4 6 3 8 3 3 2 _____

◆ Find one-third.

4 0 1 3 5 6 1 1 7 2 _____

◆ Add two-thirds of a dozen.

2 8 1 9 6 1 9 5 9 8 _____

◆ Add 6.

2 5 8 5 2 6 3 4 6 6 _____

◆ Find the square root.

7 0 8 7 1 7 9 0 5 9 _____

◆ Add 16.

2 1 1 5 7 4 9 7 2 6 _____

◆ Add the digits in your number. The sum of that is your new number.

1 4 6 8 8 3 5 6 4 4 _____

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The high school band is buying new saxophones this year. The cost to the school per saxophone is \$267.39, including tax. If the school purchases ten saxophones, what will the total cost be?

The average cost for a hospital stay is \$157 per day for a standard room and \$526 per day for intensive care. If Peter stays in intensive care for six days and in a standard room for seven more days, what will the total room cost be?

Jenna was bored. She asked her mother if she could make cookies. Her mother agreed, so Jenna got busy. She made 3 dozen oatmeal cookies and 16 chocolate chip cookies. How many cookies did she make in all?

The W32.Envid worm discovered on November 13 has an infection length of 36,864 bytes. There are 1024 bytes in one kilobyte. Write the infection length of the worm in kilobytes.

Maria built a new cabinet for one of her antique radios. The front of the cabinet is 8.7 inches wide and 12.2 inches high. If she doubles the length and width, what will the area be? Round your answer to the nearest hundredth.

Mr. Smith wanted to buy a French tea press for his wife. He went to the Afternoon Tea Store. The prices for their teapots were \$14.88, \$41.92, \$32.89, and \$10.90. What is the range of prices?

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A Sally Ride Festival was held in Miles City to encourage middle school and high school girls to study math and science. Of the girls who attended, $\frac{1}{5}$ were in 7th grade, $\frac{1}{3}$ were in 8th grade, and the rest were in high school. What fraction of the girls was in high school?

According to the polar bear census taken in the Alaskan Native Wildlife Refuge, there were 35 polar bears born last month. Of that number, 20 were female and the rest were male. What is the ratio of females to males? (Express your answer as a fraction in lowest terms.)

Mr. Miller said that only 3 out of 25 dogs are chosen to pull sleds in the Iditarod. If that were true, how many dogs out of 84 would be chosen?

Consider a piece of paper in the shape of a parallelogram - any parallelogram. How can this piece of paper be used to prove the formula for the area of a triangle?

Ms. Lee borrowed \$4,300 to help her finish her last year of master's degree classes in teaching reading. She will repay it in five years at a simple interest rate of 6.3%. How much will she have to repay at the end of five years?

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<p>Circle the smallest number:</p> <p>743,092,835 27,958,013</p> <p>460,931,784,256 8,260,159</p>	<p>1 lb = 16 oz</p> <p>12 lb = _____ oz</p>	$\begin{array}{r} 24 \\ + 20 \\ \hline \end{array}$
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<p>Amy rolls a die. What is the chance of her rolling a 2?</p> <p>_____</p>	<p>Write this as a number in standard form. Use a comma in your number.</p> <p>eight hundred fifty-eight thousand, six hundred thirty-three</p> <p>_____</p>
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<p>$8 \times 7 =$ _____</p>	<p>Amanda and her little sister, Sarah, both have birthdays on the same day. Amanda is fourteen years old. Sarah is ten years old. Did you know that Amanda was once double the age of Sarah? How many years ago was that?</p>	$\begin{array}{r} 92 \\ - 16 \\ \hline \end{array}$
$\begin{array}{r} 706 \\ - 269 \\ \hline \end{array}$		

<p>Jessica rolls two dice. What is the chance of her rolling a 3 on one die and a 3 on the other die?</p> <p>_____</p>	<p>Amanda and Amy are playing a number game. Amanda says 15. Amy replies that the answer is 6. Amanda says 18. Amy replies that the answer is 9. Amanda says 12. Amy replies that the answer is 3. Amanda says 10. Amy is thinking. What number should Amy reply with?</p>
<p>25 kg = _____ g</p>	

<p>$132 \div 11 =$</p>	<p>$322 - 243 =$ _____</p>	$\begin{array}{r} 414 \\ + 390 \\ \hline \end{array}$
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$120 \div 12 = \underline{\hspace{2cm}}$	Pick a month. Can you make up a calendar for your month with five Tuesdays? Show your calendar below:
$49 \div 7 = \underline{\hspace{2cm}}$	
$2 \times 10 = \underline{\hspace{2cm}}$	

The boys in your class each were given a ticket with a number on it. The numbers given out were: 9, 8, 20, 30, 6, 32, and 39. One ticket will be picked from a hat. What are the chances that the winning ticket number is divisible by 4?	How many yards are in 21 feet? $\underline{\hspace{2cm}}$ yards
	$11 \times 10 = \underline{\hspace{2cm}}$
	$12 \div 4 = \underline{\hspace{2cm}}$

$30 \div 10 = \underline{\hspace{2cm}}$	In the number 850,386,938,066, the digit 9 is in what place? $\underline{\hspace{2cm}}$
---	--

Write 7,780 in words. $\underline{\hspace{2cm}}$	$77 \div 7 = \underline{\hspace{2cm}}$
---	--

Fill in the missing operations to complete this equation: $42 \underline{\hspace{1cm}} 14 \underline{\hspace{1cm}} 24 = 27$	$9 \times 5 = \underline{\hspace{2cm}}$
--	---

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$84 \div 7 =$

$8 \div 2 =$ _____

Two-fifths of the children in Miller's class want to go outside. If Miller agrees with the majority, will the class stay inside or go outside?

$8 \times 2 =$ _____

Can 809 be evenly divided by 5? Circle:

809 is evenly divisible by 5

809 is NOT evenly divisible by 5

$132 \div 11 =$ _____

$10 \times 6 =$

Can 429 be evenly divided by 10? Circle:

429 is evenly divisible by 10

429 is NOT evenly divisible by 10

Holly is younger than April. Anna is older than Holly. Who's the youngest?

$64 \div 8 =$ _____

$6,157 + 7,479 =$ _____

For 1,420,210,114,028, write the digit that is in the hundred thousands place.

Justin has two nickels and one penny. He also has one other coin that is different from the rest of his coins. How much could he have?

$30 \div 6 =$ _____

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6 • 5 • ÷ • 5 • ÷ • = • 8 • 5 • 1 • 2 • 6 • 0 • 4 • 6 • =

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

The puzzle grid consists of the following pieces:

- A horizontal row: 9 x [] = [] 4
- A vertical column: 1, x, [], =
- A horizontal row: 0 x 6 = []
- A horizontal row: 5 [] ÷ 8 [] 7
- A vertical column: 0
- A horizontal row: 4 ÷ 2 = []
- A vertical column: ÷, 9
- A horizontal row: 8 [] 1 [] []
- A vertical column: 2, 2, 1
- A horizontal row: 6 ÷ 8 = 8
- A vertical column: 2, []

Shaded cells are located at the intersection of the horizontal row '0 x 6 = []' and the vertical column '2, 2, 1', and at the intersection of the horizontal row '6 ÷ 8 = 8' and the vertical column '2, 2, 1'.

What time is 15 hours after 5:00 p.m.?

$60 \div 5 = \underline{\hspace{2cm}}$

Which is the better buy?
Three bags of candy for \$9
or eight bags of candy for \$64?

$60 \div 12 = \underline{\hspace{2cm}}$

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What is $5y - 6$
when $y = 3$?

What is $8m + 429$
when $m = 4$?

What is $39 + 8s$
when $s = 6$?

Hannah is coding programs. What will these two programs print to the screen?

```
r = 4;  
b = 2r + 91  
print ( b )
```

```
y = 7;  
a = 28 / y  
print ( a )
```

Hint: / is code for division.

```
print ( a )
```

What is $7 + \frac{5r}{6}$
When $r = ?$

Ready to code?

Write a program that assigns the value of 7 to r. Then write another line of code that assigns the value of r plus 66 to b. Your last line of code should print the variable b.

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The (make-believe) country of Slowmonia, after 22 years of research, launched a rocket into space to land on Pluto. It is slow! It travels 2.939 kilometers in a month. How far will it travel in 70 years?

Anna has given powers to her collection of dolls. There are the A dolls and the D dolls. Today, she is having a match between one A doll and one D doll. The doll with more power will win. Who will win?

Four A dolls have 2 power points.

Three D dolls have 4 power points.

Write as a fraction in simplest form.

$$\frac{5}{6} + \frac{9}{10} + \frac{1}{15} = \underline{\hspace{2cm}}$$

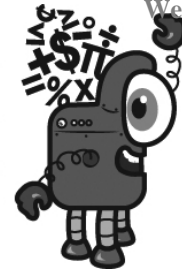
$$\frac{2}{3} + \frac{7}{8} + \frac{1}{6} = \underline{\hspace{2cm}}$$

$$\frac{2}{3} + \frac{1}{6} + \frac{1}{2} = \underline{\hspace{2cm}}$$

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Only use a pencil to write the numbers on the blank lines. You do not need any scrap paper! Solve it in your head. If you forget a number, then start over. Cool, huh?

Mental Math



= Do it
in your
head!

imagine 2 in your head

add 7

add 5

Write the tens digit.

_____ A

imagine 4 in your head

multiply 7

add 3

subtract 6

add 5

double it

Write the tens digit.

_____ B

imagine 4 in your head

multiply 5

double it

subtract 8

add 8

add 4

Add the tens digit to the ones digit.

Write the sum.

_____ C

imagine 9 in your head

add 2

add 3

double it

Write the tens digit.

_____ D

What is the sum?

A + B + C + D

Wow! Great job! That's the answer, but do you know how to SPELL the number?

_____ e _____ t _____ e _____

5 after 19 _____

5 before 11 _____

1 before 14 _____

9 after 18 _____

8 before 18 _____

6 before 12 _____

7 after 16 _____

7 before 13 _____

9 before 15 _____

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Find the way from START to END by passing through EVERY number that is a multiple of fifteen exactly ONCE. Cross off each box that is NOT a multiple of fifteen. Yes, that means you have to go through ALL the multiple of fifteen boxes. Wow!

You are not allowed to go diagonally. Good luck!

START	163	930	615	735	885	630
840	810	345	622	405	570	465
195	750	233	909	855	30	90
765	645	120	336	195	420	375
120	30	555	240	15	135	285
225	60	135	75	315	510	315
795	930	945	555	870	600	525
788	285	675	945	525	945	75
922	702	924	193	120	960	645
264	376	566	924	431	736	END

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Color Squares Puzzle

Color in the number of consecutive boxes in each row and column. Double check when you are done!

		C									
		A	B	1	D	E	F	G	H	I	J
		2	2	3	5	4	6	2	3	4	2
K	2	\						\			\
L	3										\
M	4										
N	2										
O	1				\						\
P	2	1								\	\
Q	3	\									\
R	4										\
S	6								\	\	
T	6							\	\	\	\

- CLUE A: Color in 2 consecutive boxes.
- CLUE B: Color in 2 consecutive boxes.
- CLUE C: Color in 1 box. Then color at least one blank. Then color in 3 consecutive boxes..
- CLUE D: Color in 5 consecutive boxes.
- CLUE E: Color in 4 consecutive boxes.
- CLUE F: Color in 6 consecutive boxes.
- CLUE G: Color in 2 consecutive boxes.
- CLUE H: Color in 3 consecutive boxes.
- CLUE I: Color in 4 consecutive boxes.
- CLUE J: Color in 2 consecutive boxes.
- CLUE K: Color in 2 consecutive boxes.
- CLUE L: Color in 3 consecutive boxes.
- CLUE M: Color in 4 consecutive boxes.

- CLUE N: Color in 2 consecutive boxes.
- CLUE O: Color in 1 box.
- CLUE P: Color in 2 consecutive boxes. Then color at least one blank. Then color in 1 box..
- CLUE Q: Color in 3 consecutive boxes.
- CLUE R: Color in 4 consecutive boxes.
- CLUE S: Color in 6 consecutive boxes.
- CLUE T: Color in 6 consecutive boxes.

Don't forget to double check when you are done!

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Sudoku Sums of 16

Each row, column, and box must have the numbers 1 through 9.
Hint: Look for sudoku sums. The sum of the two boxes inside of the dashed lines is 16.

Here is an example of a sudoku sum of 16:

8	8
---	---

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

Simplify.

$$\frac{2,200}{3,300} =$$

If $4x = 60$, then $x =$

$$(9 + 18) + 7 = 2(v + 12)$$

What is the value of v ?

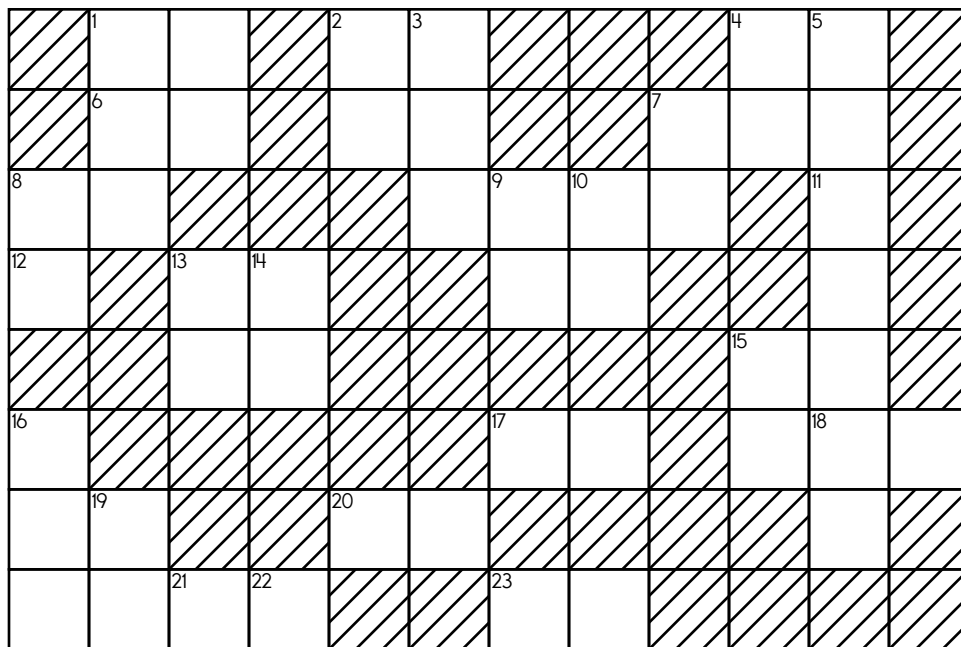
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ACROSS

1. What is the greatest common factor of 30 and 50?
2. Two less than 18-Across
5. How many factors does 20 have?
6. 18-Across plus 19-Down
8. Five more than 8-Down
11. What is the greatest common factor of 44 and 64?
12. What is the greatest common factor of 9-Down and 7-Down?
17. What is the lowest common multiple of 9-Down and 19-Down?
18. First prime number after 10-Down
20. Average of 9-Down and 21-Across
21. Four times 10-Down
23. 2-Across plus 19-Down

DOWN

2. One-fourth of 15-Down
3. 16-Down plus 20-Across
4. Sum of digits of 3-Down
5. **six million, seven hundred forty thousand, one hundred twenty-seven**
7. The factors of 40 are 1, 2, 4, 5, 8, __, 20, 40.
8. First composite number after 10-Down
9. 12
10. $9 + 12$
11. Its digits total 14
13. What is the greatest common factor of 9-Down and 20-Across?
14. The factors of 42 are 1, 2, 3, 6, 7, 14, __, 42.
15. What is the lowest common multiple of 11-Across and 18-Across?
16. 18-Across plus 21-Across
19. Average of 8-Down and 7-Down
22. How many factors does 21 have?



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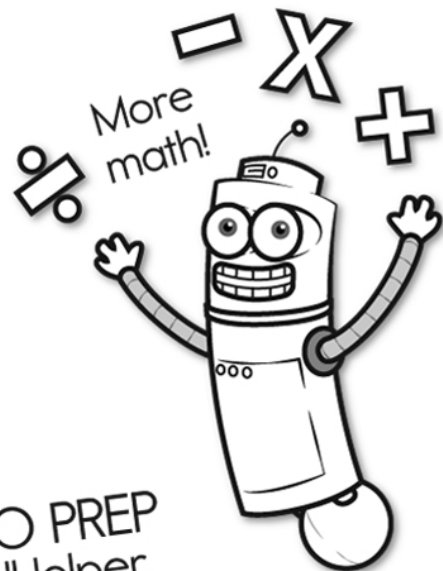
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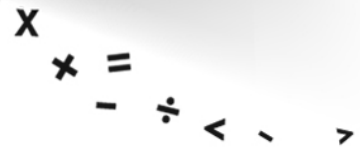
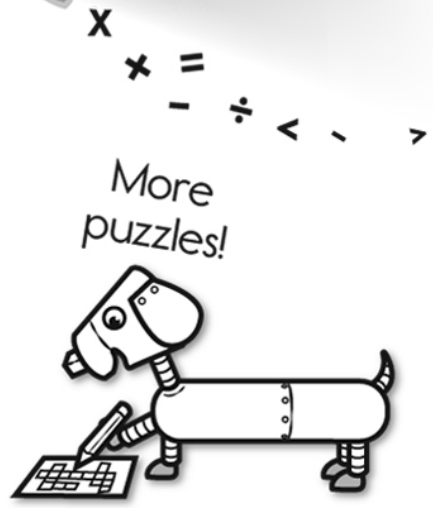
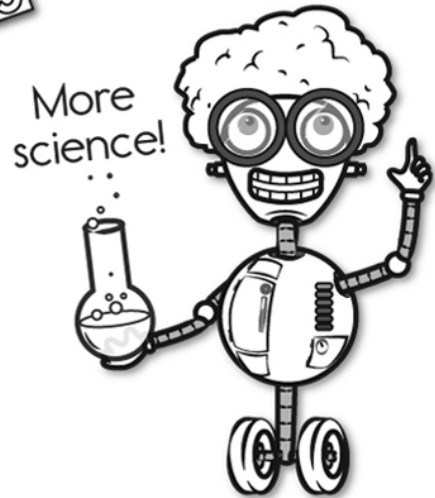
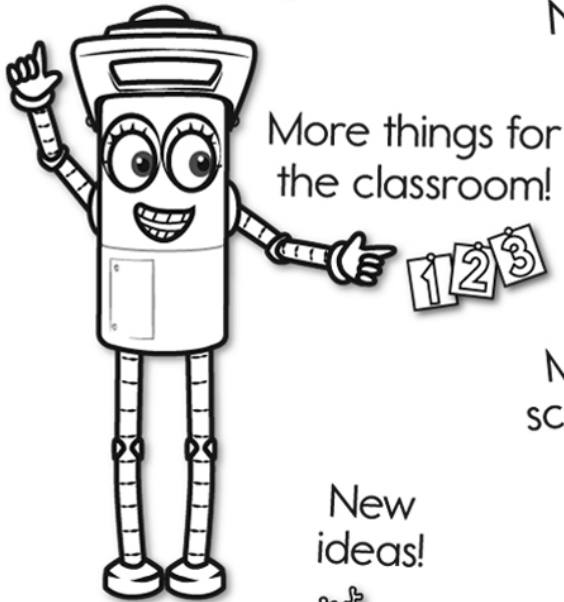


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