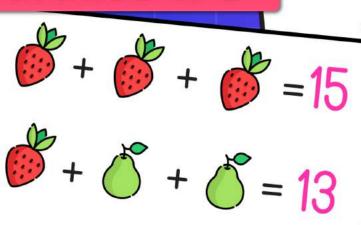
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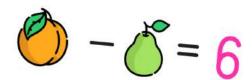
21 Super Fun

MATH PUZZLES

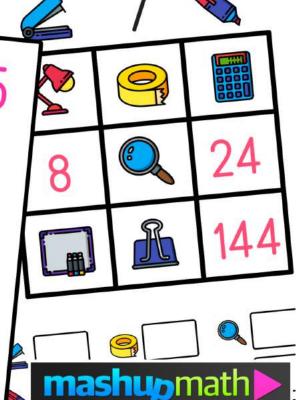
for Engaging Your Kids!

Grades K-8











Welcome to Mashup Math!

Thank you for joining our mailing list and for downloading this free PDF miniature math workbook for students in grades K-8!

You're probably here because you know that the key to getting your kids excited about practicing and learning math is to make the materials fun and engaging.

On the following pages, you will find 21 math puzzles (plus a few bonus activities!) that you can use to inject some fun into your upcoming math lessons both in the classroom and at home. The puzzles and challenges are super fun to solve and are an excellent way to get your kids thinking and problem-solving creatively and mathematically (and even algebraically, way before they ever step foot inside of an algebra class!).

So, go ahead and share these puzzles with your kids and find out why more and more teachers rely on Mashup Math to make their lessons fun and engaging all year long!

Enjoy!



Anthony Persico :) Founder, Mashup Math

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Part I: Grades K-3



- Single and Double-Digit Addition and Subtraction
- Elementary Operations
- One and Two-Step Problem Solving

Helpful Hint:

Symbols represent numbers.

Example A

If
$$2 + 4 = 9$$
,

Then $= 7$

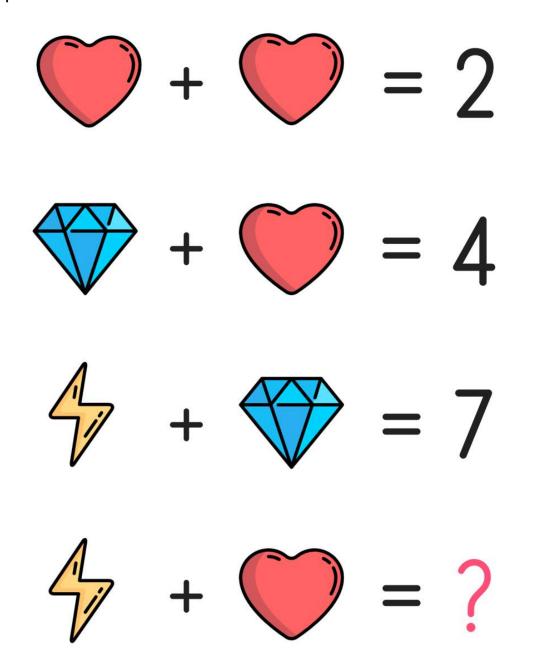
Example B

If $4 + 4 = 8$,

Then $4 = 4$

Part I: Puzzle #1 of 7

Directions: Use your math skills to find the value of each symbol and the ? in the puzzle below.



Part I: Puzzle #2 of 7

Directions: Use your math skills to find the value of each symbol and the ? in the puzzle below.

$$+ = 10$$
 $+ = 6$
 $+ = 3$
 $+ = 3$

Part I: Puzzle #3 of 7

Directions: Use your math skills to find the value of each symbol and the ? in the puzzle below.

$$+2=$$

Part I: Puzzle #4 of 7

Directions: Use your math skills to find the value of each symbol and the ? in the puzzle below.

$$+ = 16$$
 $+ = 20$
 $+ = 15$
 $+ = 7$

Part I: Puzzle #5 of 7

Directions: Use your math skills to find the value of each symbol and the ? in the puzzle below.

Part I: Puzzle #6 of 7



Directions: Use your math skills to determine which of the three statements below is not true! Explain how you made your decision.

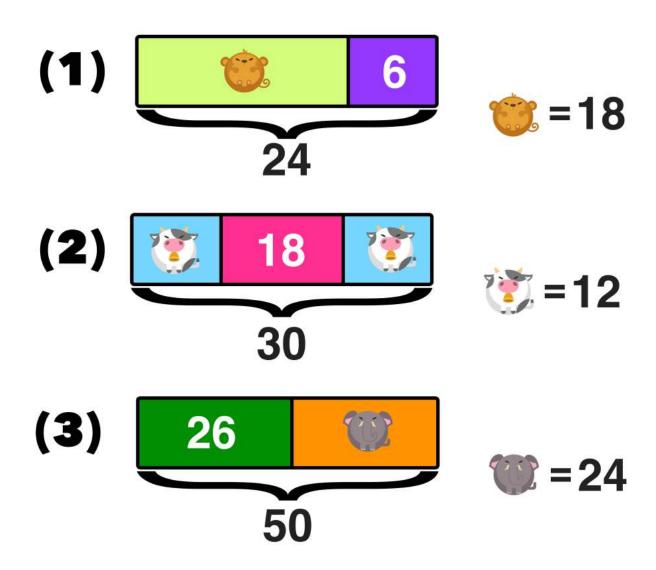


I believe that _____ is not true because...

Part I: Puzzle #7 of 7



Directions: Use your math skills to determine which of the three statements below is <u>not true!</u> Explain how you made your decision.



I believe that _____ is not true because...

Part II: Grades 4-6



- Mixed Operations: Addition, Subtraction, Multiplication, and Division
- Two-Step Problem Solving and Substitution
- Intermediate Order of Operations
- Elementary Algebraic Thinking

Helpful Hint:

Multiple symbols can have the same value.

Example

If
$$6 = 0$$

and $6 + 0 = 6$,
then $6 & 0$ both equal 3 .

Part II: Puzzle #1 of 7

Directions: Use your math skills to find the value of each symbol and the ? in the puzzle below.

$$+ + + = 36$$
 $+ + + = 36$
 $+ + + + = 28$
 $+ + + = 3$
 $+ + + = 3$
 $+ + + = 3$

Part II: Puzzle #2 of 7

Directions: Use your math skills to find the value of each symbol and the ? in the puzzle below.

$$\times \times = 90$$
 $11 \times = 110$
 $= 14 - = 7$
 $\times \times = 7$
 $\times \times = 7$

Part II: Puzzle #3 of 7

Directions: Use your math skills to find the value of each symbol and the ? in the puzzle below

Part II: Puzzle #4 of 7

Directions: Use your math skills to find the value of each symbol and the ? in the puzzle below

Part II: Puzzle #5 of 7

Directions: Use your math skills to find the value of each symbol and the ? in the puzzle below

$$35 \div = 7$$

Part II: Puzzle #6 of 7



Directions: Use your math skills to determine which of the three statements below is not true! Explain how you made your decision.

$$= 2 \quad = 5 \quad = 6$$

$$= 8 + 6$$

$$= 8 + 6$$

$$= 4 \times 6$$

$$= 4 \times$$

I believe that _____ is not true because...

Part II: Puzzle #7 of 7



Directions: Use your math skills to determine which of the three statements below is not true! Explain how you made your decision.

$$3\frac{7}{8} = 3\frac{7}{8} = 5\frac{1}{2} = 7\frac{5}{6}$$

$$1 + \frac{1}{3} + \frac{1}{5} = \frac{5}{6} + \frac{1}{7} = \frac{5}{8}$$

$$2 + \frac{1}{3} = \frac{$$

I believe that _____ is not true because...

Part III: Grades 7-8+



- Multi-Step Problem Solving and Substitution
- Advanced Order of Operations
- Intermediate Algebraic Thinking

Helpful Hint:

Remember to follow the Order of Operations







Example A

Perform multiplication/division before addition/subtraction.

$$\leq$$
 - 2 × 4

$$8 - 8 = 0$$

Example B

Perform multiplication/division and subtraction/division from left to right.

Part III: Puzzle #1 of 7

Directions: Use your math skills to find the value of each symbol and the ? in the puzzle below

Part III: Puzzle #2 of 7

Directions: Use your math skills to find the value of each symbol and the ? in the puzzle below

$$+ = 10$$
 $+ = 21$
 $+ = 21$
 $+ = 32$
 $+ = 32$
 $+ = 2$
 $+ = 2$

Part III: Puzzle #3 of 7

Directions: Use your math skills to find the value of each symbol and the ? in the puzzle below

$$\begin{array}{c} \times & \times & \times \\ & = & \times$$

Part III: Puzzle #4 of 7

Directions: Use your math skills to find the value of each symbol and the ? in the puzzle below

$$-2 = 132 \div 4$$

Part III: Puzzle #5 of 7

Directions: Use your math skills to find the value of each symbol and the ? in the puzzle below

$$2 \times 4 + 2 = 99$$

$$3 + 2 \times 4 = 52$$

$$350 \div 2 = 7$$

$$21 = 2 \times 2 \times 2 = 7$$

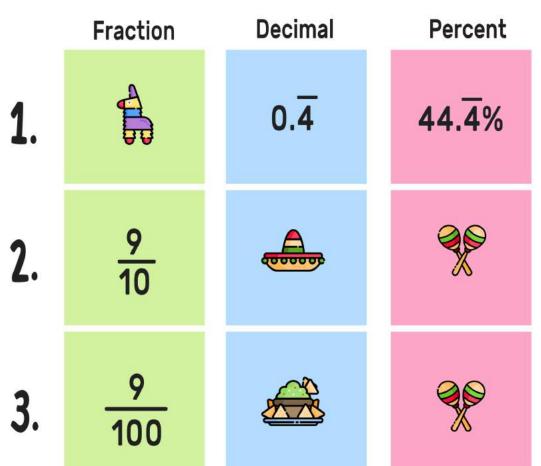
$$21 + 2 \times 2 \times 2 = 7$$

Part III: Puzzle #6 of 7



Directions: Use your math skills to determine which of the three statements below is not true! Explain how you made your decision.





I believe that _____ is not true because...

Part III: Puzzle #7 of 7



Directions: Use your math skills to determine which of the three statements below is not true! Explain how you made your decision.

1)
$$2 \times 10^{2} = 7,200$$

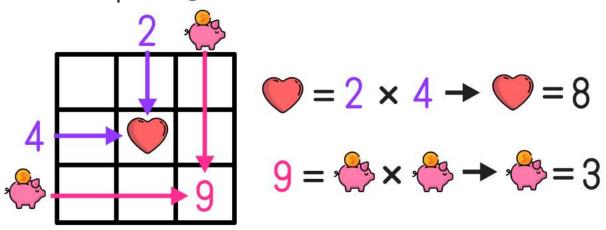
2)
$$8^{\times} \times 8^{\times} = 8^{12}$$

I believe that _____ is not true because...

Bonus!

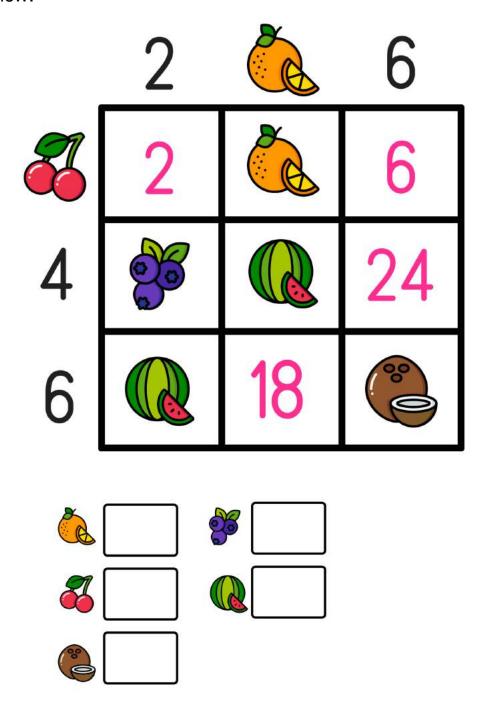
Multiplication Table Puzzles (Grades 3-8)

Multiplication tables work like a Bingo Board where each box represents the product of its corresponding column and row.



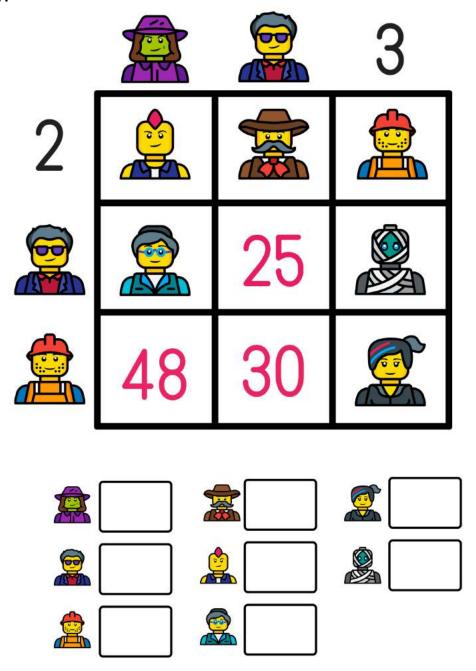
Bonus Puzzle #1 of 3 (Elementary)

Directions: Use your math skills to find the value of each symbol in the multiplication table below:



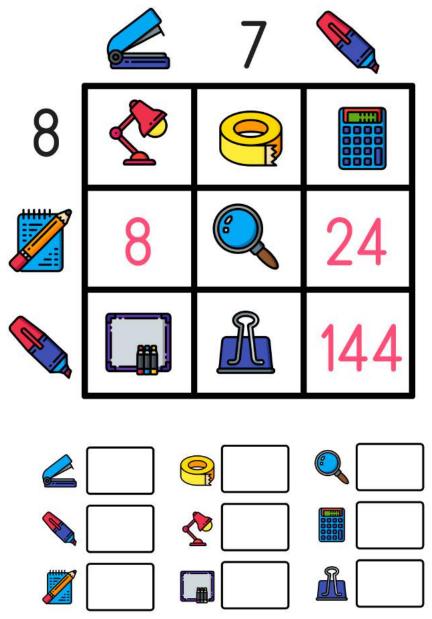
Bonus Puzzle #2 of 3 (Intermediate)

Directions: Use your math skills to find the value of each symbol in the multiplication table below:



Bonus Puzzle #3 of 3 (Advanced)

Directions: Use your math skills to find the value of each symbol in the multiplication table below:



Answer Key

Part I: Grades K-3

1.)	
Heart=1	
Diamond=3	
Bolt=4	
2-5	

5.)	7.)
C is not true	2 is not

true

Part II: Grades 4-6

White Robot=12 Blue Robot=24 Yellow Robot=7 ?=55

6.)	7.)
3 is not true	1 is not true

Part III: Grades 7-8+

1.)
Roller Blade=11
Wing Suit=33
Helmet=6
RV=6
?=28

	•		•
3.)			
Cake=1			
Flan=2			
Cupcake=	=2		
Macaroor	าร=	=10	
?=8			

iii. ai aaco	701
4.) Necklace=77 Helmet=19 Skeleton=4 Pony Tail=52 ?=1	5.) Potion=50 Bolt=7 Star=7 Jewels=3 ?=150

6.)	7.)
3 is not true	2 is not true

Bonus Multiplication Tables

Orango-2

1.)

Orange=3

Cherries=1

Coconut=36

Blueberries=8

Watermelon=12

2.)	3.)
,	,

Witch=8 Stapler=4

Sunglasses=5 Marker=12

Construction=6 Note Pad=2

Cowboy=10 Tape=56

Mowhawk=16 Lamp=32

Hair Bun=40 Erase Board=48

Pony Tail=18 Mummy=15 Magnifier=14

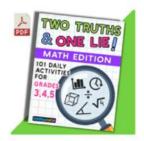
Calculator=96

Paper Clip=84

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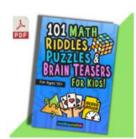
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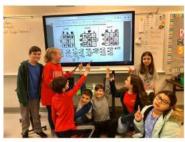
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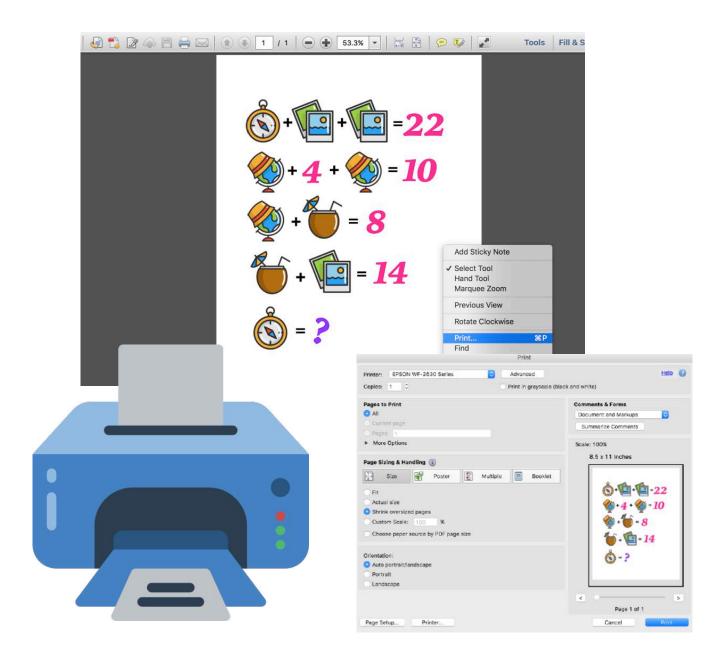






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