

MULTIPLICATIVE COMPARISON MYSTERY PICTURES

MULTIPLICATIVE COMPARISON


Name _____

MIXED UP MATH
Mystery pictures

What do fall leaves use to get from place to place?

AN 18	4	25
7	9 times as many as 6 is ____.	32 is ____ times as many as 4.
27 is ____ times as many as 3.	7 times as many as ____ is 42.	24 is ____ times as many as 12.
4 times as many as 6 is ____.	25 is 5 times as many as ____.	21 is ____ times as many as 7.

© The Owl Teacher



ENGAGE YOUR UPPER ELEMENTARY STUDENTS WITH THIS FUN MYSTERY PICTURE ACTIVITY! STUDENTS WORK THROUGH THE MULTIPLICATIVE COMPARISON PROBLEMS AND FIND THE ANSWER. THEN THEY GLUE THE ANSWER ON TOP OF THE PROBLEM TO REVEAL A MYSTERY PICTURE!

MYSTERY PICTURES

CONCEPTS COVERED

- ✓ MULTIPLICATIVE COMPARISON – 4.0A.1
- ✓ SOLVE WORD PROBLEMS INVOLVING MULTIPLICATIVE COMPARISON 4.0A.2

☆ ☆ ☆

Name _____

MIXED UP MATH
Mystery pictures

4.0A.1

Directions: Solve the problems in the boxes to the left. Next, cut the puzzle pieces along the dotted lines below. Glue each piece with its answer on top of its matching problem. When you are finished, a picture will be created for you.

To Solve: Solve each problem using a strategy of your choice.

why did the teacher have to wear sunglasses to school?

14 times as many as 6 is ____.	213 is 3 times as many as ____.	5 times as many as ____ is 135.
45 is 5 times as many as ____.	81 is ____ times as many as 9.	132 is 4 times as many as ____.
4 times as many as ____ is 136.	____ is 7 times as many as 15.	105 is 3 times as many as ____.
23 times as many as 4 is ____.	110 is ____ times as many as 10.	45 times as many as ____ is 225.

© The Owl Teacher



☆ ☆ ☆

Name _____

MIXED UP MATH
Mystery pictures

4.0A.1

Directions: Solve the problems in the boxes to the left. Next, cut the puzzle pieces along the dotted lines below. Glue each piece with its answer on top of its matching problem. When you are finished, a picture will be created for you.

To Solve: Solve each problem using a strategy of your choice.

why did the teacher have to wear sunglasses to school?

3 times as many as 7 is ____.	24 is 8 times as many as ____.	7 times as many as 8 is ____.
15 is 3 times as many as ____.	24 is ____ times as many as 6.	32 is ____ times as many as 4.
9 times as many as ____ is 54.	____ is 5 times as many as 12.	16 is 8 times as many as ____.
9 times as many as 5 is ____.	42 is ____ times as many as 6.	4 times as many as 3 is ____.

© The Owl Teacher

WHY YOU AND YOUR STUDENTS WILL LOVE THIS RESOURCE

Name _____

MIXED UP MATH
Mystery pictures

Why is Ottie running around his bed?

4.OA.2

Directions: Solve the problems in the boxes to the left. Next, cut the puzzle pieces along the dotted lines below. Glue each piece with its answer on top of its matching problem. When you are finished, a picture will be created for you.

To Solve: Solve each problem using a strategy of your choice.

There were 25 sodas and 5 water bottles in the fridge. How many times more sodas than water bottles were in the fridge?	Winnie saw 8 lions at the zoo. She saw 4 times as many as Zion. How many lions did Zion see?	Zander counted three shirts hanging in his closet. He has five times as many on his bedroom floor. How many shirts on his floor?
28	2	6

Name _____

MIXED UP MATH
Mystery pictures

Why is Ottie running around his bed?

4.OA.2

Directions: Solve the problems in the boxes to the left. Next, cut the puzzle pieces along the dotted lines below. Glue each piece with its answer on top of its matching problem. When you are finished, a picture will be created for you.

To Solve: Solve each problem using a strategy of your choice.

There were 380 sodas and 4 water bottles in the fridge. How many times more sodas than water bottles were in the fridge?	Winnie saw 120 birds at the zoo. She saw 4 times as many as Zion. How many lions did Zion see?	Zander counted fifteen shirts hanging in his closet. He has five times as many on his bedroom floor. How many shirts on his floor?
280	30	171

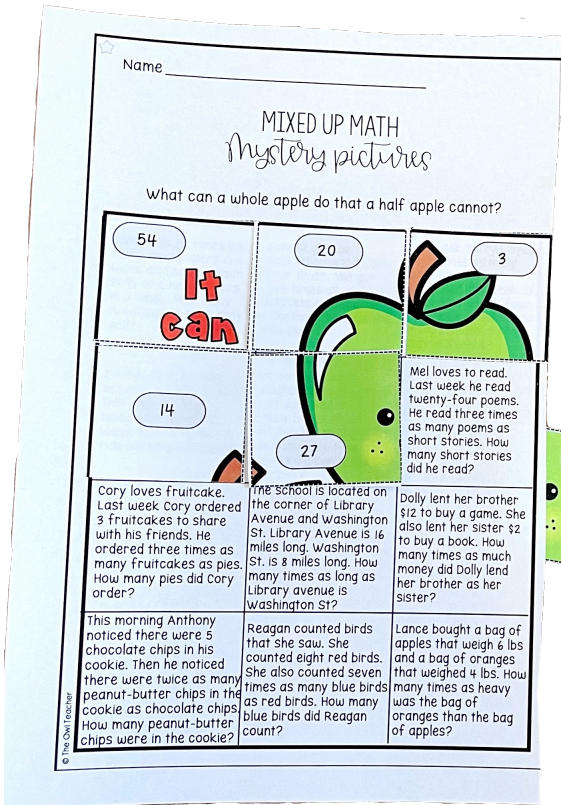
Julia had 48 red beads in a bag. She had 8 black beads in her hand. How many times as many red beads were in the bag?	Samir counted twelve times as many popcorn pieces as he did popcorn kernels. He counted 144 popcorn pieces. How many popcorn kernels did he count?	Herman ran thirteen miles last week. He ran eight times as many miles this week. How many miles did he run this week?
207	372	12

Harriet collects eight times as many marbles as her brother Josh. Josh has collected five marbles. How many marbles has Harriet collected?	Tamara takes four times longer to complete her homework than her brother Duwayne. If Duwayne takes seventy minutes to complete his homework, how long does it take Tamara?	Mischa's bag can hold 124 golf balls. On the weekend, she needs three times as many golf balls. How many golf balls does she need on the weekend?
95	28	75

Aaron has a tray of 72 chocolate chip cookies. He has 8 times as many chocolate chip cookies as sugar cookies. How many sugar cookies does he have?	The school is using the gym for a festival. The room has an area of 1,824 square feet. That is twice the size of the room used last year. What is the area of last year's room?	There were 45 skittles and 5 MM's on the shelf. How many times more skittles than MM's were on the shelf?
15	104	912

- ✓ STUDENTS LOVE TO SOLVE A MYSTERY! THIS ENGAGEMENT PIECE WILL REASSURE THE PRACTICE OCCURS!
- ✓ IT'S DIFFERENTIATED SO THAT YOU CAN MEET ALL YOUR STUDENTS NEEDS.
- ✓ NO PREP TO SAVE YOU TIME!

WHAT'S INCLUDED



6 MYSTERY PICTURES

DIFFERENTIATED SHEETS

COLOR OR B/W VERSIONS

INSTRUCTIONS

ANSWER KEYS

HAVE YOU CHECKED OUT THESE RELATED RESOURCES?

MULTIPLES

The Case Of The Stolen Pizza Mystery Clue Sheet

Oh no! Someone stole Charlotte's pizza out of her backpack. Can you help figure out who stole it, where they took it and are it, and what he or she had while eating it?

Solve the problem on each card and record an answer below. Under each answer is a clue which you get the clue mark it off here. After you have finished all the problems, the clues should disappear, and the reading material that can be used to solve the answers is clear (great! Good luck!)

The Suspects

✓	Alman
✓	Timothy
✓	Harold
✓	Joseph
✓	Ayana
✓	Asa
✓	Colton
✓	Brooke
✓	Ashley
✓	Victoria

The Locations

✓	The Playground
✓	The School Office
✓	The Hallway
✓	The Cafeteria
✓	The Music Room
✓	The Art Room
✓	The Gymnasium
✓	The Library
✓	The School Bus
✓	Your Classroom

Reading Material

✓	A magazine
✓	A novel
✓	A graphic novel
✓	A newspaper
✓	An encyclopedia
✓	A dictionary
✓	A poetry book
✓	A comic book
✓	A picture book
✓	A textbook

Answer Recording Sheet

Record your answers for each problem below.

1	10	11	20
2	12	12	22
3	13	13	23
4	14	14	24
5	15	15	25
6	16	16	26
7	17	17	27
8	18	18	28
9			

Clue Cards:

- Which number is NOT a multiple of 8? (Grid: 64, 72, 120, 140)
- Which number is NOT a multiple of 6? (Grid: 54, 30, 24, 56)

MYSTERY ACTIVITY

Multiples Mystery Activity

MULTIPLICATIVE COMPARISON

The Case Of The Stolen Jewels Mystery Clue Sheet

Oh no! The local jewelry store had their diamonds and emeralds stolen. Can you figure out who stole them, where they took them, and what they were doing with them? Help us figure out which drink it was too!

Solve the problem on each card and record an answer below. Under each answer is a clue which you get the clue mark it off here. After you have finished all the problems, the suspect, location, and drink that isn't marked off are the answers to our crime! Good luck!

The Suspects

✓	Andrew
✓	Sam
✓	Mad
✓	Wherever
✓	Wagon
✓	Se

The Locations

✓	Aluminum
✓	Carbon
✓	Gold
✓	Iron
✓	Lead
✓	Mercury
✓	Platinum
✓	Silver
✓	Steel
✓	Wood
✓	Zinc

The Jewels

✓	Diamond
✓	Emerald
✓	Garnet
✓	Opal
✓	Ruby
✓	Sapphire
✓	Topaz
✓	Amethyst
✓	Peridot
✓	Quartz
✓	Spinel

Answer Recording Sheet

Record your answers for each problem below.

10	11	14
12	12	20
13	13	21
14	14	22
15	15	23
16	16	24
17	17	25
18	18	26
		27

Clue Cards:

- Determine which choice best represents the equation: $66 \div 2$ times as many as 91.
- A restaurant had a dish that cost sixty-three dollars, which is seven times as much as the cheapest meal. How many times more was the cheapest meal?
- Which number is NOT a multiple of 8? (Grid: 8, 4, 44, 42)
- Which number is NOT a multiple of 6? (Grid: 10, 12, 13, 14, 15, 16, 17, 18)

MYSTERY CARD ACTIVITY

Multiplicative Comparison Mystery Activity

FACTORS

The Case Of The Stolen Cupcakes Mystery Clue Sheet

Oh no! Someone stole the birthday cupcakes. Can you help figure out who stole them and where they took them to eat them? They also stole a drink to wash the cupcakes down with. Help us figure out which drink it was too!

Solve the problem on each card and record an answer below. Under each answer is a clue which you get the clue mark it off here. After you have finished all the problems, the suspect, location, and drink that isn't marked off are the answers to our crime! Good luck!

The Suspects

✓	The Principal
✓	The Custodian
✓	The Art Teacher
✓	The Gym Teacher
✓	The Music Teacher
✓	The Librarian
✓	The School Secretary
✓	The Lunch Lady
✓	Your Teacher
✓	You

The Locations

✓	The Playground
✓	The School Office
✓	The Hallway
✓	The Cafeteria
✓	The Music Room
✓	The Art Room
✓	The Gymnasium
✓	The Library
✓	The School Bus
✓	Your Classroom

The Drinks

✓	Cola
✓	Milk
✓	Lemonade
✓	Ice Tea
✓	Water
✓	Hot chocolate
✓	Coffee

Answer Recording Sheet

Record your answers for each problem below.

1	10	11
2	12	12
3	13	13
4	14	14
5	15	15
6	16	16
7	17	17
8	18	18
9		

Clue Cards:

- Which number is NOT a factor of 55? (Grid: 11, 6, 55)
- Which number is NOT a factor of 32? (Grid: 8, 4, 12, 16)

MYSTERY ACTIVITY

Factors Mystery Activity