

MULTIPLICATIVE COMPARISON WORD PROBLEMS

4th Grade



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MULTIPLICATIVE COMPARISON WORD PROBLEMS

Solve each word problem. Use a multiplication table and write the letter in the magic square to find the answer to the joke!

B	C	D	E	F
15	1	6	11	28
0	P	Q	R	S
72	7	30	12	2

A slice of pizza costs \$3. A whole pizza costs how much?

Ms. Appel's class has 24 students. How many more students does she need to have 30 students?

Solving word problems with EQUATIONS

I read: Sam has 4 cookies. Elisa has 3 times as many cookies as Sam. How many cookies does Elisa have?

I write: $4 \times 3 = C$

I think: 4×3 is equal to 12

I read: Marcus did 7 math problems. Mikhail did 21 more problems than Marcus. How many more problems did Mikhail do than Marcus?

I write: $7 \times M = 21$

I think: What number times 7 is equal to 21?
7 times 3 is equal to 21

I solve: Mikhail did 3 times more problems than Marcus

MULTIPLICATIVE COMPARISON WORD PROBLEMS

Directions: Read and solve the word problem. Represent each problem as your final answer.

1 Aiko and Devon collected 9 seashells as Aiko. How many seashells did Devon collect?

MULTIPLICATIVE COMPARISON WORD PROBLEMS

Directions: Read and solve the word problem. Represent your work with a multiplication equation.

1 A recipe for oatmeal raisin cookies calls for 3 times as much vanilla as cinnamon. If the recipe calls for 9 teaspoons of cinnamon, how much vanilla does it call for?

Directions: Write an equation to represent the unknown number.

1 Last week, Mr. O'Connor wrote 12 spelling words. This week, he wrote 3 times as many spelling words. How many spelling words did he write this week?

Equation: _____

$12 \times 3 = W$

spelling words

and a lemon tree in the yard. How many apples as lemon trees does she have?

solving word problems with

MODELS

A bowl of fruit has 4 bananas. It has 6 times more grapes than bananas. How many grapes are there?

There are 24 grapes in the fruit bowl

George threw a baseball 35 yards. That's 7 times as far as Vicky threw the baseball. How far did Vicky throw the ball?

Vicky threw the baseball 5 yards.

NAME: _____

MULTIPLICATIVE WORD PROBLEMS

Directions: Solve each word problem. Use the key in the key and write the letter in the key to find the answer to the problem.

A	B	C	D	E	F
12	15	1	6	11	28
N	O	P	Q	R	S
5	72	7	30	12	2

- 1 A slice of pizza costs \$3. A whole pizza costs how much?
- 2 Ms. Appel's class spent 30 minutes as snack time. How long is snack time?
- 3 There are 8 seeds in a pack of seeds. How many times as many seeds are there in a pack of 72 seeds?
- 4 There are 6 puppies in a litter. There are 30 puppies in a litter. How many times as many puppies are there in a litter of 30?
- 5 There are 20 cucumber slices in a salad. There are 120 cucumber slices in a salad. How many times as many cucumber slices are there in a salad of 120?

What is the answer?

NAME: _____

MULTIPLICATIVE COMPARISON WORD PROBLEMS

Directions: Read and solve the word problems involving multiplication. Represent your work with a multiplication equation or by drawing a model.

- 1 A recipe for oatmeal raisin cookies calls for 2 teaspoons of vanilla extract. How many teaspoons of vanilla extract are needed for 8 batches of cookies?

NAME: _____

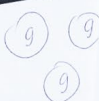
MULTIPLICATIVE COMPARISON WORD PROBLEMS

Re: _____

Directions: Read and solve the word problems involving multiplication. Represent each problem as a model or by drawing a model.

- 1 Aiko and Devon are collecting seashells. Aiko has 9 seashells. How many seashells does Devon have if he has 3 times as many seashells as Aiko?

MODEL



- 2 Safiyah is 10 years old. How old is her grandmother if she is 3 times as old as Safiyah?

MODEL



NAME: _____

MULTIPLICATIVE COMPARISON WORD PROBLEMS

Directions: Write an equation for each word problem. Solve the equation to find the unknown number.

- 1 Last week, Mr. O'Connor gave 8 spelling words to his class. This week, the spelling list had 16 words. How many spelling words did Mr. O'Connor give his class this week?

Equation: _____

$$8 \times 2 = 16$$

Answer: _____

$$16 \div 8 = 2$$

- 2 There is an apple tree in the yard. There are 3 lemons, and 3 times as many oranges as lemons. How many oranges are there?

Equation: _____

Answer: _____

DATE: _____

Solving word problems with multiplication equations

I read:

Sam has 4 cookies. Elisa has 3 times as many cookies as Sam. How many cookies does Elisa have?

I write:

$$4 \times 3 = C$$

I think:

4×3 is equal to 12

I solve:

Elisa has 12 cookies

I read:

Marcus did 7 math problems. Mikhail did 21 math problems. How many times more problems did Mikhail do than Marcus?

I write:

$$7 \times M = 21$$

I think:

What number times 7 is equal to 21?
7 times 3 is equal to 21

I solve:

Mikhail did 3 times more problems than Marcus

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DATE:

MULTIPLICATIVE COMPARISON
WORD PROBLEMS

ing equations

ch word problem using the designated letter to

...s students a spelling list with 8 v
two times as many words as last
did Mr. O'Connor assign his students

problems with TIONS

How many cookies do you have?

DATE:

COMPARATIVE COMPARISON OF PROBLEMS

problem detective

DATE:

COMPARATIVE COMPARISON WORD PROBLEMS

Read and solve

MULTIPLICATIVE COMPARISON WORD PROBLEMS

task cards

task cards

Directions: Read the problem on each task card. Solve the problem in the corresponding space below, being sure to show your work. Discard each task card after finishing by dragging it off the slide.

TASK CARD #1

TASK CARD #1

Juliana and Andre are picking strawberries. Andre picked 3 pounds of strawberries. Juliana picked 3 times as many strawberries as Andre. How many pounds of strawberries did Juliana pick?



MULTIPLICATION
WORD PROBLEMS

Read and

Directions: Read and solve the word problems in
Represent each problem as a model, write an equation,
your final answer.

1 Aiko and Devon are collecting seashells. Devon collected 3 times as many seashells as Aiko. Aiko collected 9 seashells. How many seashells did Devon collect?

MODEL

EQUATION

$$9 \times 3 = 5$$

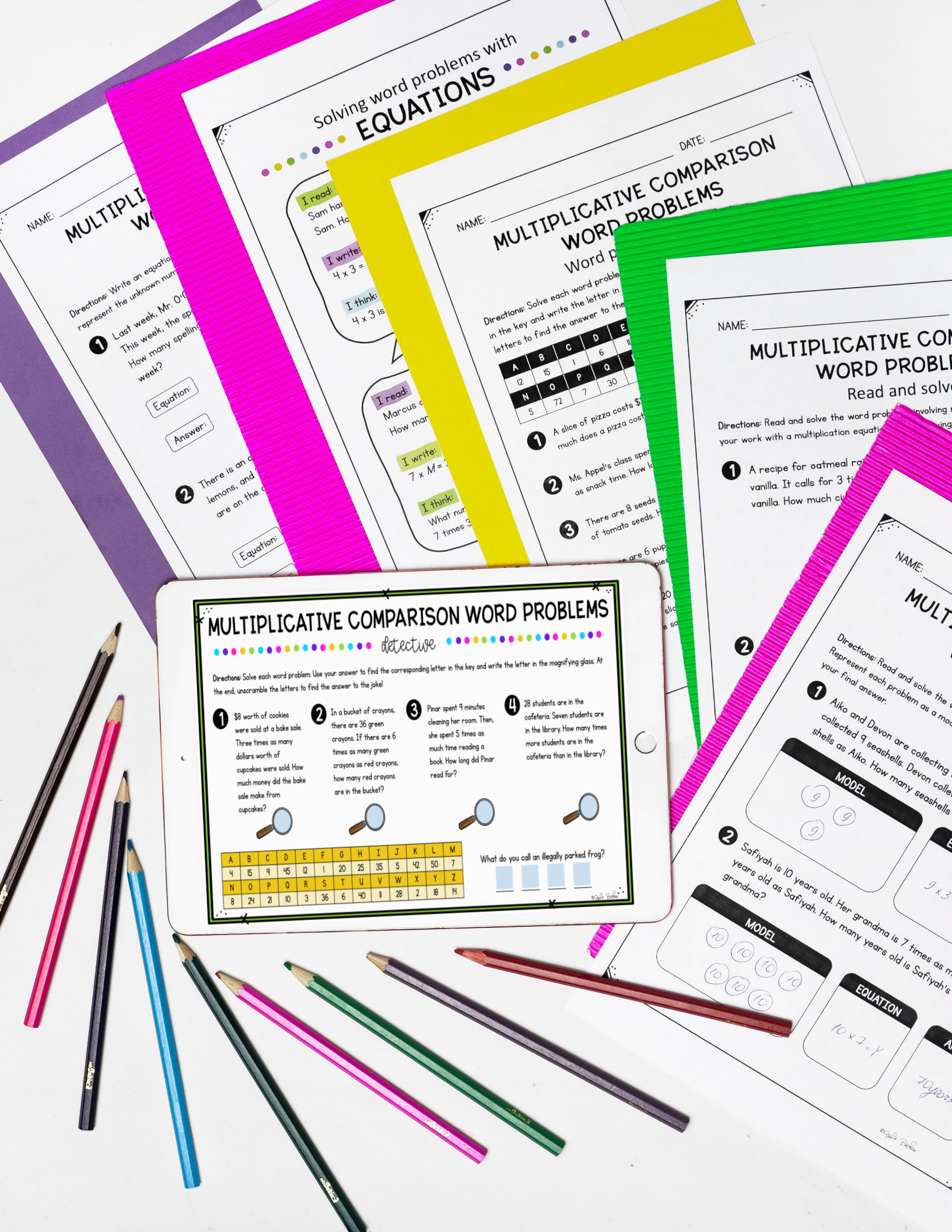
2 Safiyah is 10 years old. Her grandma is 7 times as many years old as Safiyah. How many years old is Safiyah's grandma?

MODEL

EQUATION

$$10 \times 7 = 70$$

70 years old



NAME: _____

MULTIPLICATION WORD PROBLEMS

Directions: Write an equation to represent the unknown number.

- 1 Last week, Mr. O. This week, the spelling list was 4 times as long. How many spelling words were there this week?

Equation: _____

Answer: _____

- 2 There is an orange tree in the yard. There are 4 lemons, and 3 times as many oranges are on the tree. How many oranges are there?

Equation: _____

Solving word problems with EQUATIONS

I read: Sam has 4 books. Sam has 4 times as many books as Sam. How many books does Sam have?

I write: $4 \times 3 =$

I think: 4×3 is 12

I read: Marcus has 7 marbles. How many marbles does Marcus have?

I write: $7 \times M =$

I think: What number times 7 is 35?

NAME: _____

MULTIPLICATIVE COMPARISON WORD PROBLEMS

Directions: Solve each word problem. Write the letter in the key and write the letter in the magnifying glass to find the answer to the problem.

A	B	C	D	E
12	15	1	6	11
N	O	P	Q	R
5	72	7	30	18

- 1 A slice of pizza costs \$2. How much does a pizza cost?
- 2 Ms. Appel's class spent 7 minutes on snack time. How long did the class spend on snack time?
- 3 There are 8 seeds in each packet. How many seeds are there in 7 packets?

NAME: _____

MULTIPLICATIVE COMPARISON WORD PROBLEMS

Directions: Read and solve the word problem. Write your work with a multiplication equation.

- 1 A recipe for oatmeal raisin cookies calls for 3 cups of vanilla. How much vanilla does the recipe call for?

NAME: _____

MULTIPLICATION WORD PROBLEMS

Directions: Read and solve the word problem. Represent each problem as a model. Write your final answer.

- 1 Aiko and Devon are collecting seashells. Aiko collected 9 seashells. Devon collected 3 times as many seashells as Aiko. How many seashells did Devon collect?

MODEL



- 2 Safiyah is 10 years old. Her grandma is 7 times as old as Safiyah. How many years old is Safiyah's grandma?

MODEL



EQUATION

$$10 \times 7 = 70$$

MULTIPLICATIVE COMPARISON WORD PROBLEMS

Detective

Directions: Solve each word problem. Use your answer to find the corresponding letter in the key and write the letter in the magnifying glass. At the end, unscramble the letters to find the answer to the joke!

- 1 \$8 worth of cookies were sold at a bake sale. Three times as many dollars worth of cupcakes were sold. How much money did the bake sale make from cupcakes?
- 2 In a bucket of crayons, there are 36 green crayons. If there are 6 times as many green crayons as red crayons, how many red crayons are in the bucket?
- 3 Pinar spent 9 minutes cleaning her room. Then, she spent 5 times as much time reading a book. How long did Pinar read for?
- 4 28 students are in the cafeteria. Seven students are in the library. How many times more students are in the cafeteria than in the library?



A	B	C	D	E	F	G	H	I	J	K	L	M
4	15	9	45	12	1	20	25	35	5	42	50	7
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
8	24	2	10	3	36	6	40	11	28	2	18	14

What do you call an illegally parked frog?

Four empty boxes for writing the answer to the joke.

NAME: _____

MULTIPLY

Directions: Solve each word problem in the key and write the letters to find the answer.

A	B	C
12	15	1
N	O	P
5	72	7

- 1 A slice of pizza costs \$1.20. How much does a whole pizza cost?
- 2 Ms. Appel's class has 15 students. Mr. Appel's class has 12 students. How many more students are in Ms. Appel's class?
- 3 There are 72 pages in a book. If you read 12 pages a day, how many days will it take to read the book?
- 4 There are 5 lemons in a basket. If you have 7 baskets, how many lemons do you have?
- 5 There are 15 cucumbers in a basket. If you have 5 baskets, how many cucumbers do you have?

NAME: _____

MULTIPLICATION WORD PROBLEMS

Directions:

MULTIPLY

Directions: Read and solve each problem. Represent each problem with an equation. Write your final answer.

- 1 Aiko and Deva collected 9 seashells. Aiko collected 5 seashells. How many seashells did Deva collect?

M

9

- 2 Safiyah is 7 years old. Her grandmother is 72 years old. How many times as old as Safiyah is her grandmother?

72

7

NAME: _____

MULTIPLY WORD PROBLEMS

Directions: Write an equation to represent the unknown number.

- 1 Last week, Mr. O'Connell sold 4 lemons. This week, he sold 3 times as many lemons. How many lemons did he sell this week?

Equation: _____

Answer: _____

- 2 There are 7 lemons in a basket. If you have 7 baskets, how many lemons do you have?

Equation: _____

Answer: _____

Solving word problems with EQUATIONS

I read:

Sam has 4 cookies. Elisa has 3 times as many cookies as Sam. How many cookies does Elisa have?

I write:

$4 \times 3 = C$ ← an equation, using a symbol or letter for the unknown number

I think:

4 x 3 is equal to 12

I solve:

Elisa has 12 cookies

I read:

Marcus did 7 math problems. Mikhail did 21 math problems. How many times more problems did Mikhail do than Marcus?

I write:

$7 \times M = 21$ ← an equation, using a symbol or letter for the unknown number

I think:

What number times 7 is equal to 21?
7 times 3 is equal to 21

I solve:

Mikhail did 3 times more problems than Marcus

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MULTIPLICATIVE COMPARISON WORD PROBLEMS

word problems with EQUATIONS

has 3 times as many con-
does Elisa have?

MULTIPLICATIVE COMPARISON WORD PROBLEMS

NAME: MC

Directions: Re-
your work w

1 A rec
vanill
vanill

2 Safiyah is
years ol
grandm

2 In
w
D

MULTIPLICATIVE COMPARISON WORD PROBLEMS

writing equations

Directions: Write an equation for each word problem using the designated letter to represent the unknown number. Solve.

1 Last week, Mr. O'Connor gave his students a spelling list with 8 words. This week, the spelling list has two times as many words as last week. How many spelling words, *W*, did Mr. O'Connor assign his students this week?

Equation: $8 \times 2 = W$
Answer: 16 spelling words



2 There is an apple tree and a lemon tree in a garden. There are 10 lemons, and 3 times as many apples as lemons. How many apples, *A*, are on the apple tree?

Equation: $10 \times 3 = A$
30 apples

MULTIPLICATIVE COMPARISON WORD PROBLEMS

write your own word problem

Directions: Write a word problem for each number below, incorporating the information you are given. Write the answer to each word problem.

1  21 zebras
 3 gorillas



2  8 shirts
 32 dresses



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MULTIPLICATIVE COMPARISON WORD PROBLEMS

4th grade

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solving word problems with

EQUATIONS

I read:

Sam has 4 cookies. Elisa has 3 times as many cookies as Sam. How many cookies does Elisa have?



I write:

$4 \times 3 = C$ ← an equation, using a symbol or letter for the unknown number

I think:

4×3 is equal to 12

I solve:

Elisa has 12 cookies

I read:

Marcus did 7 math problems. Mikhail did 21 math problems. How many times more problems did Mikhail do than Marcus?



I write:

$7 \times M = 21$ ← an equation, using a symbol or letter for the unknown number

I think:

What number times 7 is equal to 21?
7 times 3 is equal to 21

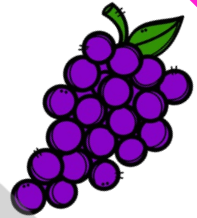
I solve:

Mikhail did 3 times more problems than Marcus.

solving word problems with

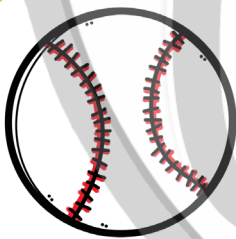
MODELS

A bowl of fruit has 4 bananas. It has 6 times more grapes than bananas. How many grapes are there?



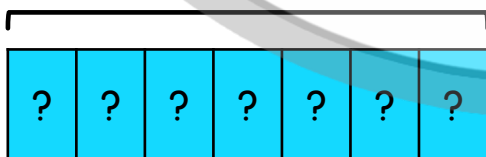
24

There are 24
grapes in the
fruit bowl.



George threw a baseball 35 yards. That's
7 times as far as Vicky threw the baseball.
How far did Vicky throw the ball?

35



Vicky threw the
baseball 5 yards.

NAME: _____ DATE: _____

MULTIPLICATIVE COMPARISON WORD PROBLEMS

drawing models

Directions: Draw a model to represent each word problem. Solve.

- 1** The Maplewood Public Library is 3 miles away from the post office. The elementary school is 3 times as many miles away from the post office as the library. How many miles is the school from the post office?

MODEL

ANSWER

- 2** On Flight 657, there are 8 passengers sitting in first class. There are 72 passengers sitting in economy class. How many times more economy passengers are there than first class passengers?

MODEL

ANSWER

NAME: _____ DATE: _____

MULTIPLICATIVE COMPARISON WORD PROBLEMS

writing equations

Directions: Write an equation for each word problem using the designated letter to represent the unknown number. Solve.

- 1** Last week, Mr. O'Connor gave his students a spelling list with 8 words. This week, the spelling list has two times as many words as last week. How many spelling words, W , did Mr. O'Connor assign his students this week?

Equation:

Answer:

- 2** An apple tree and a lemon tree are in a garden. There are 10 lemons, and 3 times as many apples as lemons. How many apples, A , are on the apple tree?

Equation:

Answer:

NAME: _____ DATE: _____

MULTIPLICATIVE COMPARISON WORD PROBLEMS

read and solve

Directions: Read and solve the word problems involving multiplicative comparisons. Represent each problem as a model, write an equation about your model, and write your final answer.

- 1** Aiko and Devon are collecting seashells on the beach. Aiko collected 9 seashells. Devon collected 3 times as many shells as Aiko. How many seashells did Devon collect?



MODEL

EQUATION

ANSWER

- 2** Safiyah is 10 years old. Her grandma is 7 times as many years old as Safiyah. How old is Safiyah's grandma?



MODEL

EQUATION

ANSWER

NAME: _____

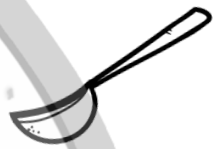
DATE: _____

MULTIPLICATIVE COMPARISON WORD PROBLEMS

read and solve

Directions: Read and solve the word problems involving multiplicative comparisons. Show your work with a multiplication equation or by drawing a model.

- 1** A recipe for oatmeal raisin cookies calls for 2 teaspoons of vanilla. It calls for 3 times as much cinnamon as it does vanilla. How much cinnamon does the recipe call for?

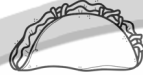


- 2** In winter 2019, it snowed 9 inches in Deerlake. The following winter, it snowed 36 inches. How many times more snow did Deerlake receive in 2020 than in 2019?

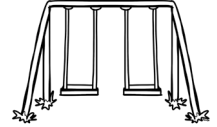




- 9** For lunch, the cafeteria served tacos and turkey wraps. The tacos were very popular and there are only 6 left. There are 4 times as many turkey wraps left as there are tacos. How many turkey wraps are left?



- 10** At the playground, 5 kids are on the swings. 25 kids are on the jungle gym. How many times more kids are there on the jungle gym than on the swings?



- 11** A can of soda at a convenience store costs 10 quarters. If a soda costs five times as much as a candy bar costs, how many quarters does a candy bar cost?



- 12** Ho-jin and his grandmother are making hot chocolate. Ho-jin's grandmother puts 7 marshmallows in her mug. Ho-jin puts 6 times as many marshmallows in his. How many marshmallows are in Ho-jin's mug?



- 13** There are a bunch of jellybeans in a bowl. Nine jellybeans are red. There are 3 times as many yellow jellybeans as red jellybeans. How many yellow jellybeans are there?



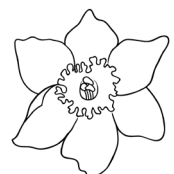
- 14** On Monday, Theo had a math test and a science quiz. There were 30 questions on the math test, and that is 5 times as many questions as there were on the science quiz. How many questions were on the science quiz?



- 15** Cassie is organizing her closet. She has 6 pairs of pants, and 3 times as many shirts as pants. How many shirts does Cassie have in her closet?



- 16** In a flower garden, there are 64 tulips. That's 8 times more than the number of daffodils in the garden. How many daffodils are in the garden?



NAME: _____ DATE: _____

MULTIPLICATIVE COMPARISON WORD PROBLEMS

write your own word problem

Directions: Write a word problem for each number below, incorporating the information you are given. Write the answer to each word problem.

1



21 zebras



3 gorillas

2



8 shirts



32 dresses

3



5 girls



15 boys

NAME: _____ DATE: _____

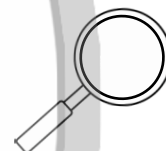
MULTIPLICATIVE COMPARISON WORD PROBLEMS

word problem detective

Directions: Solve each word problem. Use your answer to find the corresponding letter in the key and write the letter in the magnifying glass. At the end, unscramble the letters to find the answer to the joke!

A	B	C	D	E	F	G	H	I	J	K	L	M
12	15	1	6	11	28	3	40	10	8	20	18	48
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
5	72	7	30	12	2	24	9	56	49	4	35	32

- 1 A slice of pizza costs \$3. A whole pizza costs 6 times as much. How much does a pizza cost?
- 2 Ms. Appel's class spent 30 minutes at recess. Recess is 3 times as long as snack time. How long is snack time?
- 3 There are 8 seeds in a pack of sunflower seeds and 56 seeds in a pack of tomato seeds. How many times more tomato seeds come in a pack?
- 4 There are 6 puppies in a litter. There are twice as many kittens in a litter as puppies. How many kittens are in a litter?
- 5 There are 20 cucumber slices in a salad. If there are 4 times as many cucumber slices as cherry tomatoes in the salad, how many tomatoes are in the salad?



What type of bagel can fly?

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Good to Go



Not O.K.

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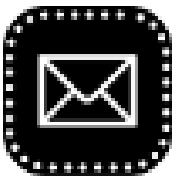
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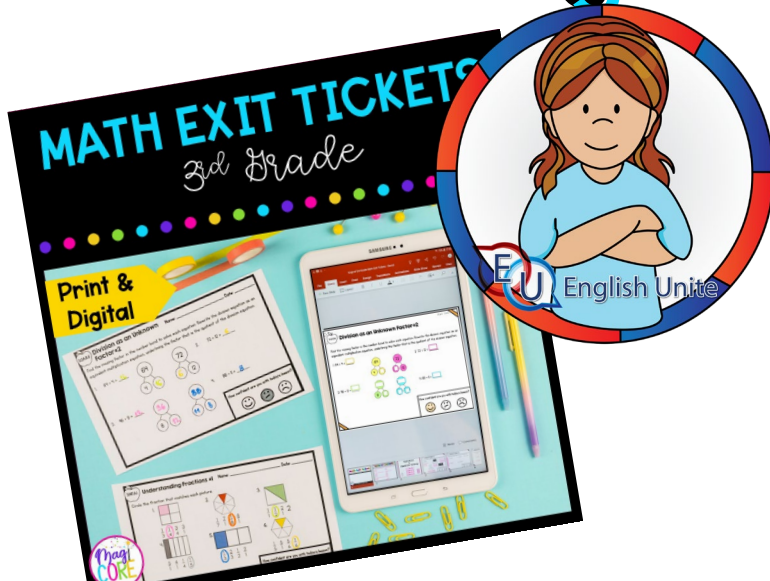


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