

The Comparison Times

NO. 1 • FRONT PAGE

PRICE: 3 TIMES AS FUN

*Today's assignment: Find the math behind each headline.***HEADLINE HUNT** Underline the comparison phrase. Circle the kind. Write an equation.**REPORTER'S TIP** The phrase tells the kind of comparison. The missing amount tells you what to do.

Bake Sale Breaks Its Record

This year's bake sale raised **5** times as much money as last year's sale. Last year's sale raised **\$9**. How much did this year's sale raise?

Kind: times as many more or fewer**Equation:** _____**Answer:** _____

Rainy June Soaks the Town

June had **3** more inches of rain than May. May had **5** inches of rain. How many inches of rain fell in June?

Kind: times as many more or fewer**Equation:** _____**Answer:** _____

Saturday Is a Busy Day at the Library

The library lent **8** books on Monday. On Saturday it lent **9** times as many books as on Monday. How many books did it lend on Saturday?

Kind: times as many more or fewer**Equation:** _____**Answer:** _____

Garden Club Picks Its Peppers

The garden club picked **30** tomatoes. It picked **12** fewer peppers than tomatoes. How many peppers did it pick?

Kind: times as many more or fewer**Equation:** _____**Answer:** _____

Pumpkin Sets a New Record

This year's biggest pumpkin weighs **4** times as much as last year's. Last year's biggest pumpkin weighed **20** pounds. How much does this year's weigh?

Kind: times as many more or fewer**Equation:** _____**Answer:** _____

New Bus Route Is a Hit

The new bus carried **6** riders on its first day. On Friday it carried **7** times as many riders as on its first day. How many riders rode on Friday?

Kind: times as many more or fewer**Equation:** _____**Answer:** _____

The Equation Desk

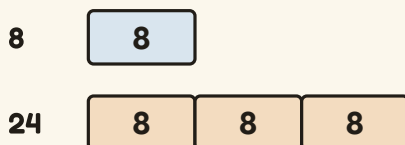
THE COMPARISON TIMES · NO. 2

PRICE: 3 TIMES AS FUN

One equation, two comparisons. What does each model show?

24 = 3 × 8, TWO WAYS Each sentence matches a different model.

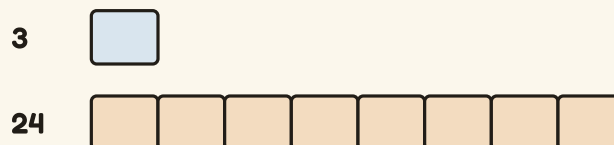
24 is 3 times as many as 8.



One bar is **8**. Three bars of **8** make **24**.

EXAMPLE

24 is _____ times as many as _____.



Write the number in each box. One bar is **3**. How many bars of **3** make **24**?

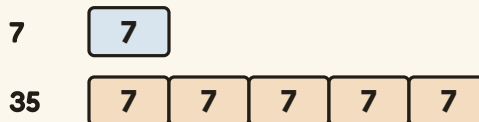
READ IT BOTH WAYS

Write each equation as two comparisons. Both are true; each model shows one of them.

$$35 = 5 \times 7$$

1. _____ is _____ times as many as _____

2. _____ is _____ times as many as _____

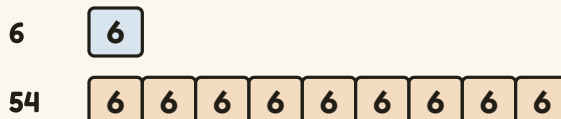


The model shows sentence **1** **2**

$$54 = 6 \times 9$$

1. _____ is _____ times as many as _____

2. _____ is _____ times as many as _____



The model shows sentence **1** **2**

$$32 = 4 \times 8$$

1. _____ is _____ times as many as _____

2. _____ is _____ times as many as _____

Draw a model for sentence 2.

Every Graphic Tells a Comparison

WRITE THE CAPTION

Write a comparison sentence and an equation for each graphic.

Animals at the shelter

Dogs

7

Cats

7

7

7

7

28

Caption:

Equation: _____

Heights in the park (in feet)

Bush

3

Tree

3

3

3

3

3

15

Caption:

Equation: _____

WHICH SENTENCE FITS THE STORY?

Circle the letter of the true sentence.

Mr. Hall's class has **8** goldfish and **24** guppies. The equation $24 = 3 \times 8$ compares them.

- A** There are 3 times as many guppies as goldfish.
- B** There are 3 times as many goldfish as guppies.
- C** There are 3 more guppies than goldfish.

How do you know?

A tree farm has **42** pine trees and **6** oak trees. The equation $42 = 7 \times 6$ compares them.

- A** There are 7 more pine trees than oak trees.
- B** There are 7 times as many oak trees as pine trees.
- C** There are 7 times as many pine trees as oak trees.

How do you know?

Money Matters

THE COMPARISON TIMES · NO. 3

PRICE: 3 TIMES AS FUN

Follow the money: Model the comparison, then find the total.

Ken has \$5. Mark has 3 times as much money as Ken. How much money does Mark have?
Then find how much money Ken and Mark have together.

STEP BY STEP

KEN AND MARK

- 1** Ken's \$5 is shown as one \$5 bill. Mark has 3 times as much: show it as three \$5 amounts. Write the amount in each.

Ken



Mark

\$	\$	\$
----	----	----

- 2** Make a tape diagram. Write the amount in each box. Every box is the same size.

Ken

--

Mark

--	--	--

Mark: ?

together: ?

- 3** Write a multiplication equation for Mark's money.

$$\underline{\hspace{1cm}} \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$

- 4** How much money does Mark have?

Mark has \$ _____

- 5** How much money do Ken and Mark have together?

$$\underline{\hspace{1cm}} + \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$

Together they have \$ _____

- 6** How does the model help you solve the problem?

Your Turn to Follow the Money

YOUR TURN Draw a model for each problem. Write the equations and solve.

PROBLEM 1

Ava has **\$6**. Leo has **4** times as much money as Ava. How much money does Leo have? How much more money does Leo have than Ava?

Draw a model.

Equation: _____

Leo has _____

Equation: _____

Leo has more: _____

PROBLEM 2

Nia has **\$7**. Omar has **5** times as much money as Nia. How much money does Omar have? How much money do Nia and Omar have together?

Draw a model.

Equation: _____

Omar has _____

Equation: _____

Together: _____

WHAT DID YOU NOTICE?

Problem **1** asks how much more. Problem **2** asks how much together. How did you find each, and why are they different?

Diagram Detective

THE COMPARISON TIMES · NO. 4

PRICE: 3 TIMES AS FUN

Does the diagram match the story?

CASE 1: MATCH THE MODEL

Write the letter of the model that fits each story. Then solve.

- 1** Jada ran **4** laps. Omar ran **3** more laps than Jada. How many laps did Omar run?

Model: _____ Equation: _____

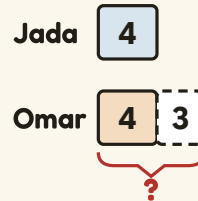
- 2** Jada ran **4** laps. Omar ran **3** times as many laps as Jada. How many laps did Omar run?

Model: _____ Equation: _____

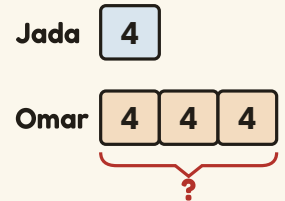
- 3** Omar ran **12** laps. That is **3** times as many laps as Jada ran. How many laps did Jada run?

Model: _____ Equation: _____

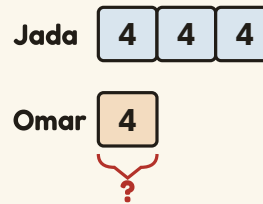
Model A



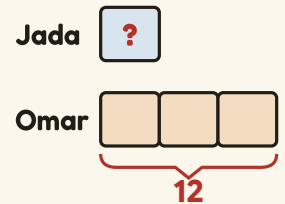
Model B



Model C



Model D



One model fits none of the stories. Which one, and what is wrong with it? _____

CASE 2: WHAT WENT WRONG?

A tower is **5** times as tall as a shed. The shed is **9** feet tall. How tall is the tower?

Detective Dot drew this model and wrote $9 + 5 = 14$ feet.

Shed

9

Tower

9	5
---	---

What is wrong with Dot's model?

Draw a correct model.

The tower is _____

Name _____

Date _____

Case Files: Finish It, Then Draw It

CASE 3: FINISH THE MODEL

 Draw all 4 equal units of the box's bar. Then solve.

A bag of apples weighs **6** pounds. A box of apples weighs **4** times as much as the bag. How much do the bag and the box weigh together?

Bag

6

Box



Box: _____

Together: _____

CASE 4: DRAW IT YOURSELF

Draw a model for each story. Write an equation and solve.

- 1** A puppy weighs **8** pounds. Its mother weighs **6** times as much as the puppy. How much does the mother weigh?

Draw a model.

Equation: _____

Answer: _____

- 2** Theo picked **15** apples. Rosa picked **7** fewer apples than Theo. How many apples did Rosa pick?

Draw a model.

Equation: _____

Answer: _____

Missing Number Bureau

THE COMPARISON TIMES · NO. 5

PRICE: 3 TIMES AS FUN

Which number is missing, and how can you find it?

ONE STORY, THREE CASES

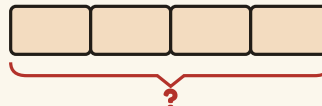
Finish each model. Write an equation with a letter. Solve.

CASE A The art club sold **6** tickets. The music club sold **4** times as many tickets. How many tickets did the music club sell?

Art

6

Music



Equation: _____ $m =$ _____

CASE B The music club sold **24** tickets. That is **4** times as many tickets as the art club sold. How many did the art club sell?

Art

?

Music



Equation: _____ $a =$ _____

CASE C The music club sold **24** tickets and the art club sold **6**. How many times as many? Split the music bar into art-size units.

Art

6

Music



Equation: _____ $n =$ _____

In Cases B and C you knew the music club's 24 tickets. How does the model show why you divide?

CLASSIFIEDS

First write an equation with a letter for the missing number. Then solve.

FOR SALE

Blue bike, **\$72**. It costs **8** times as much as the helmet. What does the helmet cost?

Equation: _____ $h =$ _____

DOG WALKER WANTED

Rex walks **30** minutes a day, **6** times as long as Bo walks. How long does Bo walk?

Equation: _____ $b =$ _____

FARM STAND NEWS

We sold **56** melons on Saturday and **8** on Monday. How many times as many did we sell on Saturday as on Monday?

Equation: _____ $n =$ _____

SWIM LESSONS

One lesson costs **\$9**. A summer pass costs **7** times as much. What does the pass cost?

Equation: _____ $p =$ _____

Same Numbers, New Story

THE COMPARISON TIMES · NO. 6

PRICE: 3 TIMES AS FUN

Same numbers. Different relationships.

POINT AND COUNTERPOINT

Draw a model for each story. Write an equation and solve.

PAIR 1A Eli has 6 stickers. Sarah has 4 more stickers than Eli. How many stickers does Sarah have? Equation: _____	PAIR 1B Eli has 6 stickers. Sarah has 4 times as many stickers as Eli. How many stickers does Sarah have? Equation: _____
PAIR 2A Sarah has 24 stickers. That is 4 more than Eli has. How many stickers does Eli have? Equation: _____	PAIR 2B Sarah has 24 stickers. That is 4 times as many as Eli has. How many stickers does Eli have? Equation: _____
PAIR 3A Eli has 6 stickers. Sarah has 24. How many more stickers does Sarah have than Eli? Equation: _____	PAIR 3B Eli has 6 stickers. Sarah has 24. How many times as many stickers does Sarah have as Eli? Equation: _____

Look at Pair 2A. It says “more than,” but you subtract. Why?

YOUR TURN Write two stories with the numbers 9 and 3: one “more than” and one “times as many.”

Reporter's Notebook

THE COMPARISON TIMES · NO. 7

PRICE: 3 TIMES AS FUN

Find the comparisons hiding in everyday stories.

Food Drive Fills the Shelves

CLASSROOM EXAMPLE ARTICLE

Pine Street School collected food for the town food pantry. The third grade brought in **9** cans of soup. The fourth grade brought in **5** times as much soup as the third grade. The fourth grade also gave **16** boxes of cereal. That is **4** fewer than the fifth grade gave.

Garden Club Has a Big Year

CLASSROOM EXAMPLE ARTICLE

The garden club planted **6** rows of corn this spring. It planted **3** more rows of beans than rows of corn. In the fall, the club's biggest pumpkin weighed **48** pounds. That is **6** times as much as the smallest pumpkin.

PHRASE LOG Underline each comparison in the articles. Log it, then solve.

1 How many cans of soup did the fourth grade bring?

Phrase: _____ It compares _____

Kind: times as many more or fewer Equation: _____

2 How many boxes of cereal did the fifth grade give?

Phrase: _____ It compares _____

Kind: times as many more or fewer Equation: _____

3 How many rows of beans did the club plant?

Phrase: _____ It compares _____

Kind: times as many more or fewer Equation: _____

4 How much did the smallest pumpkin weigh?

Phrase: _____ It compares _____

Kind: times as many more or fewer Equation: _____

Comparisons Are All Around Us

FIELD ASSIGNMENT

Read a book, a magazine, a newspaper, a suitable website or a source your teacher gives you. Find phrases that compare two amounts, like **3** more than, **4** fewer than or **5** times as much as. Log at least two.

1

Phrase: _____

Found in: _____

REQUIRED

It compares _____

Kind: times as many more or fewer

A math question I could ask: _____

2

Phrase: _____

Found in: _____

REQUIRED

It compares _____

Kind: times as many more or fewer

A math question I could ask: _____

3

Phrase: _____

Found in: _____

OPTIONAL

It compares _____

Kind: times as many more or fewer

A math question I could ask: _____

4

Phrase: _____

Found in: _____

OPTIONAL

It compares _____

Kind: times as many more or fewer

A math question I could ask: _____

WRITE YOUR OWN NEWS BRIEF

Use one comparison phrase. End with a question for a partner.

MEMO · FACT-CHECK DESK

TO: Junior fact-checker

FROM: The editor

RE: Two claims and one graphic for page 1

RUSH

Check each claim: circle True or False, and if it is false, write the correct fact. Then repair the graphic: redraw it and fix its caption. Nothing runs until it is checked.

CLAIM 1

"The shelter has 32 cats and 8 dogs, so there are 4 times as many dogs as cats."

True

False

If it is false, write the correct fact. Explain the mistake.

CLAIM 2

"A sunflower is 4 feet tall. A tree is 6 times as tall as the sunflower. So the tree is 24 feet taller than the sunflower."

True

False

If it is false, write the correct fact. Explain the mistake.

GRAPHIC FROM THE SPORTS DESK

"Mia read 12 pages. Joe read 3 times as many pages as Mia." Caption: Joe read 24 pages.

As sent:

Mia

12

Joe

12

12

24

Caption: Joe read _____ pages.

Draw the corrected graphic.

The Comparison Times

PROVE IT Check each claim yourself and show your proof.

CLAIM 3

"Theo has 15 cards. That is 6 fewer than Ava has. Max has 2 times as many cards as Ava. So Max has 42 cards."

True False *Show how you checked. If it is false, correct it.*

CLAIM 4

"The school bus holds 36 riders. That is 4 times as many riders as the van holds. So the van holds 9 riders."

True False *Draw a tape diagram to check. Then explain.*

Draw a tape diagram.

THE EDITOR'S DESK Publish it: write two true headlines about these numbers.

A town has **9** dogs and **54** cats. Write one headline that uses "times as many" and one that uses "more than."

Times as many: _____

More than: _____

The Comparison Times

NO. 1 · FRONT PAGE

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Bake Sale Breaks Its Record

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Kind: times as many more or fewer**Equation:** _____**Answer:** _____

Rainy June Soaks the Town

June had **3** more inches of rain than May. May had **5** inches of rain. How many inches of rain fell in June?

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Saturday Is a Busy Day at the Library

The library lent **8** books on Monday. On Saturday it lent **9** times as many books as on Monday. How many books did it lend on Saturday?

Kind: times as many more or fewer**Equation:** _____**Answer:** _____

Garden Club Picks Its Peppers

The garden club picked **30** tomatoes. It picked **12** fewer peppers than tomatoes. How many peppers did it pick?

Kind: times as many more or fewer**Equation:** _____**Answer:** _____

Pumpkin Sets a New Record

This year's biggest pumpkin weighs **4** times as much as last year's. Last year's biggest pumpkin weighed **20** pounds. How much does this year's weigh?

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New Bus Route Is a Hit

The new bus carried **6** riders on its first day. On Friday it carried **7** times as many riders as on its first day. How many riders rode on Friday?

Kind: times as many more or fewer**Equation:** _____**Answer:** _____

The Equation Desk

THE COMPARISON TIMES · NO. 2

PRICE: 3 TIMES AS FUN

One equation, two comparisons. What does each model show?

24 = 3 × 8, TWO WAYS Each sentence matches a different model.

24 is 3 times as many as 8.



One bar is **8**. Three bars of **8** make **24**.

EXAMPLE

24 is _____ times as many as _____.



Write the number in each box. One bar is **3**. How many bars of **3** make **24**?

READ IT BOTH WAYS

Write each equation as two comparisons. Both are true; each model shows one of them.

35 = 5 × 7

1. _____ is _____ times as many as _____

2. _____ is _____ times as many as _____



The model shows sentence **1** **2**

54 = 6 × 9

1. _____ is _____ times as many as _____

2. _____ is _____ times as many as _____



The model shows sentence **1** **2**

32 = 4 × 8

1. _____ is _____ times as many as _____

2. _____ is _____ times as many as _____

Draw a model for sentence 2.

Every Graphic Tells a Comparison

WRITE THE CAPTION Write a comparison sentence and an equation for each graphic.

Animals at the shelter

Dogs

7

Cats

7

7

7

7

28

Caption:

Equation: _____

Heights in the park (in feet)

Bush

3

Tree

3

3

3

3

15

Caption:

Equation: _____

WHICH SENTENCE FITS THE STORY? Circle the letter of the true sentence.

Mr. Hall's class has **8** goldfish and **24** guppies. The equation **$24 = 3 \times 8$** compares them.

- A** There are 3 times as many guppies as goldfish.
- B** There are 3 times as many goldfish as guppies.
- C** There are 3 more guppies than goldfish.

How do you know?

A tree farm has **42** pine trees and **6** oak trees. The equation **$42 = 7 \times 6$** compares them.

- A** There are 7 more pine trees than oak trees.
- B** There are 7 times as many oak trees as pine trees.
- C** There are 7 times as many pine trees as oak trees.

How do you know?

Money Matters

THE COMPARISON TIMES · NO. 3

PRICE: 3 TIMES AS FUN

Follow the money: Model the comparison, then find the total.

Ken has \$5. Mark has 3 times as much money as Ken. How much money does Mark have? Then find how much money Ken and Mark have together.

STEP BY STEP

KEN AND MARK

1

Ken's \$5 is shown as one \$5 bill. Mark has 3 times as much: show it as three \$5 amounts. Write the amount in each.

Ken



Mark

\$

\$

\$

2

Make a tape diagram. Write the amount in each box. Every box is the same size.

Ken

Mark

together: ?

Mark: ?

3

Write a multiplication equation for Mark's money.

×

=

4

How much money does Mark have?

Mark has \$ _____

5

How much money do Ken and Mark have together?

+

=

Together they have \$ _____

6

How does the model help you solve the problem?

ANIMAL MATH

Find worksheets, teacher tools, and more at animalmath.com
© 2026 Eggroll Games

(4)

Your Turn to Follow the Money

YOUR TURN Draw a model for each problem. Write the equations and solve.

PROBLEM 1

Ava has **\$6**. Leo has **4** times as much money as Ava. How much money does Leo have? How much more money does Leo have than Ava?

Draw a model.

Equation: _____

Leo has _____

Equation: _____

Leo has more: _____

PROBLEM 2

Nia has **\$7**. Omar has **5** times as much money as Nia. How much money does Omar have? How much money do Nia and Omar have together?

Draw a model.

Equation: _____

Omar has _____

Equation: _____

Together: _____

WHAT DID YOU NOTICE?

Problem **1** asks how much more. Problem **2** asks how much together. How did you find each, and why are they different?

Diagram Detective

THE COMPARISON TIMES · NO. 4

PRICE: 3 TIMES AS FUN

Does the diagram match the story?

CASE 1: MATCH THE MODEL

Write the letter of the model that fits each story. Then solve.

- ① Jada ran **4** laps. Omar ran **3** more laps than Jada. How many laps did Omar run?

Model: _____ Equation: _____

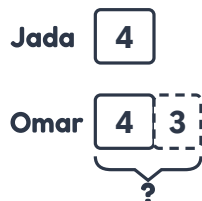
- ② Jada ran **4** laps. Omar ran **3** times as many laps as Jada. How many laps did Omar run?

Model: _____ Equation: _____

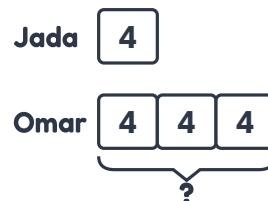
- ③ Omar ran **12** laps. That is **3** times as many laps as Jada ran. How many laps did Jada run?

Model: _____ Equation: _____

Model A



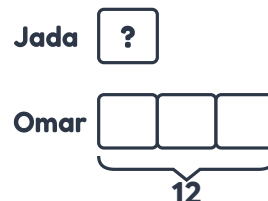
Model B



Model C



Model D



One model fits none of the stories. Which one, and what is wrong with it? _____

CASE 2: WHAT WENT WRONG?

A tower is **5** times as tall as a shed. The shed is **9** feet tall. How tall is the tower?

Detective Dot drew this model and wrote $9 + 5 = 14$ feet.

Shed

9

Tower

9	5
---	---

What is wrong with Dot's model?

Draw a correct model.

The tower is _____

Case Files: Finish It, Then Draw It

CASE 3: FINISH THE MODEL Draw all 4 equal units of the box's bar. Then solve.

A bag of apples weighs **6** pounds. A box of apples weighs **4** times as much as the bag. How much do the bag and the box weigh together?

Bag

Box

} ?

Box: _____

Together: _____

CASE 4: DRAW IT YOURSELF

Draw a model for each story. Write an equation and solve.

- ① A puppy weighs **8** pounds. Its mother weighs **6** times as much as the puppy. How much does the mother weigh?

Draw a model.

Equation: _____

Answer: _____

- ② Theo picked **15** apples. Rosa picked **7** fewer apples than Theo. How many apples did Rosa pick?

Draw a model.

Equation: _____

Answer: _____

Missing Number Bureau

THE COMPARISON TIMES · NO. 5

PRICE: 3 TIMES AS FUN

Which number is missing, and how can you find it?

ONE STORY, THREE CASES

Finish each model. Write an equation with a letter. Solve.

CASE A

The art club sold **6** tickets. The music club sold **4** times as many tickets. How many tickets did the music club sell?

Equation: _____ $m =$ _____

Art

6

Music

?

CASE B

The music club sold **24** tickets. That is **4** times as many tickets as the art club sold. How many did the art club sell?

Equation: _____ $a =$ _____

Art

?

Music

24

CASE C

The music club sold **24** tickets and the art club sold **6**. How many times as many? Split the music bar into art-size units.

Equation: _____ $n =$ _____

Art

6

Music

24

In Cases B and C you knew the music club's 24 tickets. How does the model show why you divide?

CLASSIFIEDS

First write an equation with a letter for the missing number. Then solve.

FOR SALE

Blue bike, **\$72**. It costs **8** times as much as the helmet. What does the helmet cost?

Equation: _____ $h =$ _____

DOG WALKER WANTED

Rex walks **30** minutes a day, **6** times as long as Bo walks. How long does Bo walk?

Equation: _____ $b =$ _____

FARM STAND NEWS

We sold **56** melons on Saturday and **8** on Monday. How many times as many did we sell on Saturday as on Monday?

Equation: _____ $n =$ _____

SWIM LESSONS

One lesson costs **\$9**. A summer pass costs **7** times as much. What does the pass cost?

Equation: _____ $p =$ _____

Same Numbers, New Story

THE COMPARISON TIMES · NO. 6

PRICE: 3 TIMES AS FUN

Same numbers. Different relationships.

POINT AND COUNTERPOINT

Draw a model for each story. Write an equation and solve.

PAIR 1 A

Eli has **6** stickers. Sarah has **4** more stickers than Eli. How many stickers does Sarah have?

Equation: _____

≠

PAIR 1 B

Eli has **6** stickers. Sarah has **4** times as many stickers as Eli. How many stickers does Sarah have?

Equation: _____

PAIR 2 A

Sarah has **24** stickers. That is **4** more than Eli has. How many stickers does Eli have?

Equation: _____

≠

PAIR 2 B

Sarah has **24** stickers. That is **4** times as many as Eli has. How many stickers does Eli have?

Equation: _____

PAIR 3 A

Eli has **6** stickers. Sarah has **24**. How many more stickers does Sarah have than Eli?

Equation: _____

≠

PAIR 3 B

Eli has **6** stickers. Sarah has **24**. How many times as many stickers does Sarah have as Eli?

Equation: _____

Look at Pair 2A. It says “more than,” but you subtract. Why?

YOUR TURN

Write two stories with the numbers 9 and 3: one “more than” and one “times as many.”

Reporter's Notebook

THE COMPARISON TIMES · NO. 7

PRICE: 3 TIMES AS FUN

Find the comparisons hiding in everyday stories.

Food Drive Fills the Shelves

CLASSROOM EXAMPLE ARTICLE

Pine Street School collected food for the town food pantry. The third grade brought in **9** cans of soup. The fourth grade brought in **5** times as much soup as the third grade. The fourth grade also gave **16** boxes of cereal. That is **4** fewer than the fifth grade gave.

Garden Club Has a Big Year

CLASSROOM EXAMPLE ARTICLE

The garden club planted **6** rows of corn this spring. It planted **3** more rows of beans than rows of corn. In the fall, the club's biggest pumpkin weighed **48** pounds. That is **6** times as much as the smallest pumpkin.

PHRASE LOG Underline each comparison in the articles. Log it, then solve.

① How many cans of soup did the fourth grade bring?

Phrase: _____ It compares _____

Kind: times as many more or fewer Equation: _____

② How many boxes of cereal did the fifth grade give?

Phrase: _____ It compares _____

Kind: times as many more or fewer Equation: _____

③ How many rows of beans did the club plant?

Phrase: _____ It compares _____

Kind: times as many more or fewer Equation: _____

④ How much did the smallest pumpkin weigh?

Phrase: _____ It compares _____

Kind: times as many more or fewer Equation: _____

Comparisons Are All Around Us

FIELD ASSIGNMENT

Read a book, a magazine, a newspaper, a suitable website or a source your teacher gives you. Find phrases that compare two amounts, like **3** more than, **4** fewer than or **5** times as much as. Log at least two.

1

Phrase: _____

Found in: _____

REQUIRED

It compares _____

Kind: times as many more or fewer

A math question I could ask: _____

2

Phrase: _____

Found in: _____

REQUIRED

It compares _____

Kind: times as many more or fewer

A math question I could ask: _____

3

Phrase: _____

Found in: _____

OPTIONAL

It compares _____

Kind: times as many more or fewer

A math question I could ask: _____

4

Phrase: _____

Found in: _____

OPTIONAL

It compares _____

Kind: times as many more or fewer

A math question I could ask: _____

WRITE YOUR OWN NEWS BRIEF

Use one comparison phrase. End with a question for a partner.

MEMO · FACT-CHECK DESK

TO: Junior fact-checker

FROM: The editor

RE: Two claims and one graphic for page 1

RUSH

Check each claim: circle True or False, and if it is false, write the correct fact. Then repair the graphic: redraw it and fix its caption. Nothing runs until it is checked.

CLAIM 1

"The shelter has 32 cats and 8 dogs, so there are 4 times as many dogs as cats."

True **False** *If it is false, write the correct fact. Explain the mistake.*

CLAIM 2

"A sunflower is 4 feet tall. A tree is 6 times as tall as the sunflower. So the tree is 24 feet taller than the sunflower."

True **False** *If it is false, write the correct fact. Explain the mistake.*

GRAPHIC FROM THE SPORTS DESK

"Mia read 12 pages. Joe read 3 times as many pages as Mia." Caption: Joe read 24 pages.

As sent:

Mia

12

Joe

12

12

24

Caption: Joe read _____ pages.

Draw the corrected graphic.

ANIMAL MATH

Find worksheets, teacher tools, and more at animalmath.com
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(12)

PROVE IT

Check each claim yourself and show your proof.

CLAIM 3

"Theo has 15 cards. That is 6 fewer than Ava has. Max has 2 times as many cards as Ava. So Max has 42 cards."

True

False

Show how you checked. If it is false, correct it.

CLAIM 4

"The school bus holds 36 riders. That is 4 times as many riders as the van holds. So the van holds 9 riders."

True

False

Draw a tape diagram to check. Then explain.

Draw a tape diagram.

THE EDITOR'S DESK

Publish it: write two true headlines about these numbers.

A town has **9** dogs and **54** cats. Write one headline that uses "times as many" and one that uses "more than."

Times as many:

More than:

The Comparison Times

NO. 1 · FRONT PAGE

PRICE: 3 TIMES AS FUN

Today's assignment: Find the math behind each headline.

HEADLINE HUNT Underline the comparison phrase. Circle the kind. Write an equation.

REPORTER'S TIP The phrase tells the kind of comparison. The missing amount tells you what to do.

Bake Sale Breaks Its Record

This year's bake sale raised 5 times as much money as last year's sale. Last year's sale raised \$9. How much did this year's sale raise?

Kind: times as many more or fewer

Equation: $5 \times 9 = 45$

Answer: \$45

Rainy June Soaks the Town

June had 3 more inches of rain than May. May had 5 inches of rain. How many inches of rain fell in June?

Kind: times as many more or fewer

Equation: $5 + 3 = 8$

Answer: 8 inches

Saturday Is a Busy Day at the Library

The library lent 8 books on Monday. On Saturday it lent 9 times as many books as on Monday. How many books did it lend on Saturday?

Kind: times as many more or fewer

Equation: $9 \times 8 = 72$

Answer: 72 books

Garden Club Picks Its Peppers

The garden club picked 30 tomatoes. It picked 12 fewer peppers than tomatoes. How many peppers did it pick?

Kind: times as many more or fewer

Equation: $30 - 12 = 18$

Answer: 18 peppers

Pumpkin Sets a New Record

This year's biggest pumpkin weighs 4 times as much as last year's. Last year's biggest pumpkin weighed 20 pounds. How much does this year's weigh?

Kind: times as many more or fewer

Equation: $4 \times 20 = 80$

Answer: 80 pounds

New Bus Route Is a Hit

The new bus carried 6 riders on its first day. On Friday it carried 7 times as many riders as on its first day. How many riders rode on Friday?

Kind: times as many more or fewer

Equation: $7 \times 6 = 42$

Answer: 42 riders

The Equation Desk

THE COMPARISON TIMES · NO. 2

PRICE: 3 TIMES AS FUN

One equation, two comparisons. What does each model show?

24 = 3 × 8, TWO WAYS Each sentence matches a different model.

24 is 3 times as many as 8.



One bar is 8. Three bars of 8 make 24.

EXAMPLE

24 is 8 times as many as 3.



Write the number in each box. One bar is 3. How many bars of 3 make 24?

READ IT BOTH WAYS

Write each equation as two comparisons. Both are true; each model shows one of them.

35 = 5 × 7

1. 35 is 5 times as many as 7

2. 35 is 7 times as many as 5



The model shows sentence 1 2

54 = 6 × 9

1. 54 is 6 times as many as 9

2. 54 is 9 times as many as 6



The model shows sentence 1 2

32 = 4 × 8

1. 32 is 4 times as many as 8

2. 32 is 8 times as many as 4

Draw a model for sentence 2.



Every Graphic Tells a Comparison

WRITE THE CAPTION

Write a comparison sentence and an equation for each graphic.

Animals at the shelter

Dogs

7

Cats

7

7

7

7

28

Caption:

There are 4 times as many cats as dogs.

Equation: $28 = 4 \times 7$

Heights in the park (in feet)

Bush

3

Tree

3

3

3

3

15

Caption:

The tree is 5 times as tall as the bush.

Equation: $15 = 5 \times 3$

WHICH SENTENCE FITS THE STORY?

Circle the letter of the true sentence.

Mr. Hall's class has **8** goldfish and **24** guppies. The equation $24 = 3 \times 8$ compares them.

- ☒ **A** There are 3 times as many guppies as goldfish.
- ☐ **B** There are 3 times as many goldfish as guppies.
- ☐ **C** There are 3 more guppies than goldfish.

How do you know?

The 24 guppies are 3 groups of 8 goldfish. 3 more would be 11.

A tree farm has **42** pine trees and **6** oak trees. The equation $42 = 7 \times 6$ compares them.

- ☐ **A** There are 7 more pine trees than oak trees.
- ☐ **B** There are 7 times as many oak trees as pine trees.
- ☒ **C** There are 7 times as many pine trees as oak trees.

How do you know?

The 42 pines are 7 groups of 6 oaks. 7 more would be only 13.

Money Matters

THE COMPARISON TIMES · NO. 3

PRICE: 3 TIMES AS FUN

Follow the money: Model the comparison, then find the total.

Ken has \$5. Mark has 3 times as much money as Ken. How much money does Mark have? Then find how much money Ken and Mark have together.

STEP BY STEP

KEN AND MARK

- ① Ken's \$5 is shown as one \$5 bill. Mark has 3 times as much: show it as three \$5 amounts. Write the amount in each.

Ken



Mark

\$	5	\$	5	\$	5
----	---	----	---	----	---

- ② Make a tape diagram. Write the amount in each box. Every box is the same size.

Ken

\$5

Mark

\$5	\$5	\$5
-----	-----	-----

Mark: \$15

together: \$20

- ③ Write a multiplication equation for Mark's money.

$$3 \times 5 = 15$$

- ④ How much money does Mark have?

Mark has \$ 15

- ⑤ How much money do Ken and Mark have together?

$$5 + 15 = 20$$

Together they have \$ 20

- ⑥ How does the model help you solve the problem?

Mark's bar is 3 boxes the same size as Ken's \$5 box, so Mark has $3 \times 5 = \$15$. Ken's box and Mark's 3 boxes make 4 boxes of \$5, \$20 together.

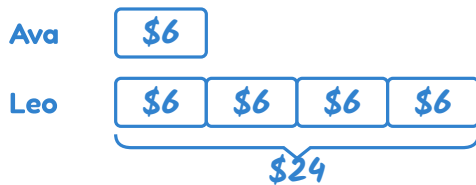
Your Turn to Follow the Money

YOUR TURN Draw a model for each problem. Write the equations and solve.

PROBLEM 1

Ava has **\$6**. Leo has **4** times as much money as Ava. How much money does Leo have? How much more money does Leo have than Ava?

Draw a model.



Equation: $4 \times 6 = 24$

Leo has $\$24$

Equation: $24 - 6 = 18$

Leo has more: $\$18$

PROBLEM 2

Nia has **\$7**. Omar has **5** times as much money as Nia. How much money does Omar have? How much money do Nia and Omar have together?

Draw a model.



Equation: $5 \times 7 = 35$

Omar has $\$35$

Equation: $7 + 35 = 42$

Together: $\$42$

WHAT DID YOU NOTICE?

Problem 1 asks how much more. Problem 2 asks how much together. How did you find each, and why are they different?

How much more: I took Ava's \$6 away from Leo's \$24, $24 - 6 = 18$. Together: I added Nia's \$7 to Omar's \$35, $7 + 35 = 42$. One compares the amounts, the other joins them.

Diagram Detective

THE COMPARISON TIMES · NO. 4

PRICE: 3 TIMES AS FUN

Does the diagram match the story?

CASE 1: MATCH THE MODEL

Write the letter of the model that fits each story. Then solve.

- ① Jada ran **4** laps. Omar ran **3** more laps than Jada. How many laps did Omar run?

Model: A Equation: $4 + 3 = 7$, 7 laps

- ② Jada ran **4** laps. Omar ran **3** times as many laps as Jada. How many laps did Omar run?

Model: B Equation: $3 \times 4 = 12$, 12 laps

- ③ Omar ran **12** laps. That is **3** times as many laps as Jada ran. How many laps did Jada run?

Model: D Equation: $12 \div 3 = 4$, 4 laps

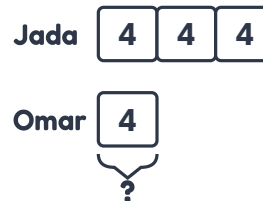
Model A



Model B



Model C



Model D

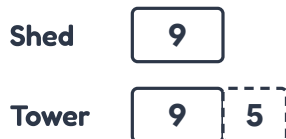


One model fits none of the stories. Which one, and what is wrong with it? C: Jada and Omar are swapped.

CASE 2: WHAT WENT WRONG?

A tower is **5** times as tall as a shed. The shed is **9** feet tall. How tall is the tower?

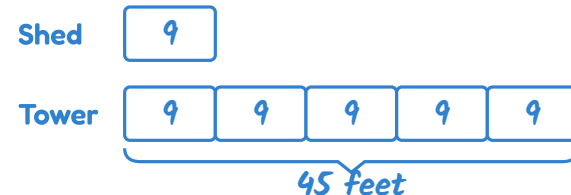
Detective Dot drew this model and wrote $9 + 5 = 14$ feet.



What is wrong with Dot's model?

Dot added 5 feet. 5 times as tall means
the tower is as tall as 5 sheds: 5 units
of 9 feet, not 9 feet and 5 more.

Draw a correct model.



The tower is 45 feet tall ($5 \times 9 = 45$)

Case Files: Finish It, Then Draw It

CASE 3: FINISH THE MODEL Draw all 4 equal units of the box's bar. Then solve.

A bag of apples weighs **6** pounds. A box of apples weighs **4** times as much as the bag. How much do the bag and the box weigh together?



Box: $4 \times 6 = 24 \text{ pounds}$

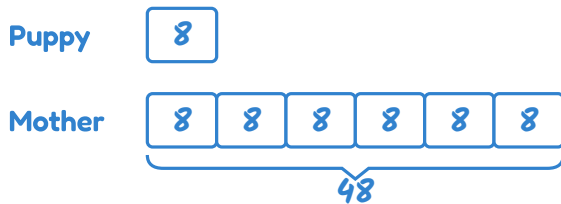
Together: $6 + 24 = 30 \text{ pounds}$

CASE 4: DRAW IT YOURSELF

Draw a model for each story. Write an equation and solve.

- ① A puppy weighs **8** pounds. Its mother weighs **6** times as much as the puppy. How much does the mother weigh?

Draw a model.

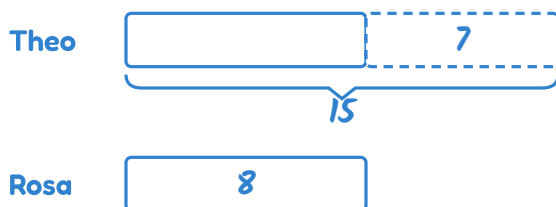


Equation: $6 \times 8 = 48$

Answer: 48 pounds

- ② Theo picked **15** apples. Rosa picked **7** fewer apples than Theo. How many apples did Rosa pick?

Draw a model.



Equation: $15 - 7 = 8$

Answer: 8 apples

Missing Number Bureau

THE COMPARISON TIMES · NO. 5

PRICE: 3 TIMES AS FUN

Which number is missing, and how can you find it?

ONE STORY, THREE CASES

Finish each model. Write an equation with a letter. Solve.

CASE A The art club sold **6** tickets. The music club sold **4** times as many tickets. How many tickets did the music club sell?

Art

6

Music

6

6

6

6

?

Equation: $m = 4 \times 6$ $m = 24$

CASE B The music club sold **24** tickets. That is **4** times as many tickets as the art club sold. How many did the art club sell?

Art

6

Music

6

6

6

6

24

Equation: $24 = 4 \times a$ $a = 6$

CASE C The music club sold **24** tickets and the art club sold **6**. How many times as many? Split the music bar into art-size units.

Art

6

Music

6

6

6

6

24

Equation: $24 = n \times 6$ $n = 4$

In Cases B and C you knew the music club's 24 tickets. How does the model show why you divide?

The 24 is cut into 4 equal parts, so one part (the art club) is $24 \div 4 = 6$. In Case C, I count how many 6s fit in 24: $24 \div 6 = 4$.

CLASSIFIEDS

First write an equation with a letter for the missing number. Then solve.

FOR SALE

Blue bike, **\$72**. It costs **8** times as much as the helmet. What does the helmet cost?

Equation: $72 = 8 \times h$ $h = \$9$

DOG WALKER WANTED

Rex walks **30** minutes a day, **6** times as long as Bo walks. How long does Bo walk?

Equation: $30 = 6 \times b$ $b = 5 \text{ minutes}$

FARM STAND NEWS

We sold **56** melons on Saturday and **8** on Monday. How many times as many did we sell on Saturday as on Monday?

Equation: $56 = n \times 8$ $n = 7 \text{ times as many}$

SWIM LESSONS

One lesson costs **\$9**. A summer pass costs **7** times as much. What does the pass cost?

Equation: $p = 7 \times 9$ $p = \$63$

Same Numbers, New Story

THE COMPARISON TIMES · NO. 6

PRICE: 3 TIMES AS FUN

Same numbers. Different relationships.

POINT AND COUNTERPOINT

Draw a model for each story. Write an equation and solve.

PAIR 1A

Eli has **6** stickers. Sarah has **4** more stickers than Eli. How many stickers does Sarah have?

Eli 6
 Sarah 6 4 Equation: $6 + 4 = 10$

≠

PAIR 1B

Eli has **6** stickers. Sarah has **4** times as many stickers as Eli. How many stickers does Sarah have?

Eli 6
 Sarah 6 6 6 6 Equation: $4 \times 6 = 24$

PAIR 2A

Sarah has **24** stickers. That is **4** more than Eli has. How many stickers does Eli have?

Eli 20
 Sarah 20 4 Equation: $24 - 4 = 20$

≠

PAIR 2B

Sarah has **24** stickers. That is **4** times as many as Eli has. How many stickers does Eli have?

Eli 6
 Sarah 6 6 6 6 Equation: $24 \div 4 = 6$

PAIR 3A

Eli has **6** stickers. Sarah has **24**. How many more stickers does Sarah have than Eli?

Eli 6
 Sarah 6 18 Equation: $24 - 6 = 18$

≠

PAIR 3B

Eli has **6** stickers. Sarah has **24**. How many times as many stickers does Sarah have as Eli?

Eli 6
 Sarah 6 6 6 6 Equation: $24 \div 6 = 4$

Look at Pair 2A. It says “more than,” but you subtract. Why?

Sarah's 24 is the bigger amount, 4 more than Eli's. Eli's amount is missing, so I take the 4 away: $24 - 4 = 20$.

YOUR TURN Write two stories with the numbers 9 and 3: one “more than” and one “times as many.”

Sample: Ben has 3 shells. Ann has 9 more shells than Ben. How many does Ann have?

$3 + 9 = 12$. Ann has 9 times as many shells as Ben. $9 \times 3 = 27$.

Reporter's Notebook

THE COMPARISON TIMES · NO. 7

PRICE: 3 TIMES AS FUN

Find the comparisons hiding in everyday stories.

Food Drive Fills the Shelves

CLASSROOM EXAMPLE ARTICLE

Pine Street School collected food for the town food pantry. The third grade brought in **9** cans of soup. The fourth grade brought in 5 times as much soup as the third grade. The fourth grade also gave **16** boxes of cereal. That is 4 fewer than the fifth grade gave.

Garden Club Has a Big Year

CLASSROOM EXAMPLE ARTICLE

The garden club planted **6** rows of corn this spring. It planted 3 more rows of beans than rows of corn. In the fall, the club's biggest pumpkin weighed **48** pounds. That is 6 times as much as the smallest pumpkin.

PHRASE LOG Underline each comparison in the articles. Log it, then solve.

① How many cans of soup did the fourth grade bring?

Phrase: 5 times as much soup as It compares fourth grade's soup to third grade's

Kind: times as many more or fewer Equation: $5 \times 9 = 45$, 45 cans

② How many boxes of cereal did the fifth grade give?

Phrase: 4 fewer than It compares fourth grade's cereal to fifth grade's

Kind: times as many more or fewer Equation: $16 + 4 = 20$, 20 boxes

③ How many rows of beans did the club plant?

Phrase: 3 more rows of beans than It compares rows of beans to rows of corn

Kind: times as many more or fewer Equation: $6 + 3 = 9$, 9 rows

④ How much did the smallest pumpkin weigh?

Phrase: 6 times as much as It compares biggest pumpkin to smallest

Kind: times as many more or fewer Equation: $48 \div 6 = 8$, 8 pounds

Comparisons Are All Around Us

FIELD ASSIGNMENT

Read a book, a magazine, a newspaper, a suitable website or a source your teacher gives you. Find phrases that compare two amounts, like **3** more than, **4** fewer than or **5** times as much as. Log at least two.

1 Phrase: Answers will vary, for example "twice as tall as." Found in: the book or article REQUIRED
 It compares Any two amounts the phrase compares, the one compared to named.
 Kind: times as many more or fewer A math question I could ask: Any question that uses the comparison.

2 Phrase: _____ Found in: _____ REQUIRED
 It compares _____
 Kind: times as many more or fewer A math question I could ask: _____

3 Phrase: _____ Found in: _____ OPTIONAL
 It compares _____
 Kind: times as many more or fewer A math question I could ask: _____

4 Phrase: _____ Found in: _____ OPTIONAL
 It compares _____
 Kind: times as many more or fewer A math question I could ask: _____

WRITE YOUR OWN NEWS BRIEF

Use one comparison phrase. End with a question for a partner.

Sample: Our class read 6 books in September. In October we read 3 times as many books. How many books did we read in October? ($3 \times 6 = 18$)

The Comparison Times

EDITORIAL OFFICE · NO. 8

MEMO · FACT-CHECK DESK

RUSH

TO: Junior fact-checker

FROM: The editor

RE: Two claims and one graphic for page 1

Check each claim: circle True or False, and if it is false, write the correct fact. Then repair the graphic: redraw it and fix its caption. Nothing runs until it is checked.

CLAIM 1

"The shelter has 32 cats and 8 dogs, so there are 4 times as many dogs as cats."

True **False** If it is false, write the correct fact. Explain the mistake.

False. The cats are the bigger amount: there are 4 times as many cats as dogs,

$$32 = 4 \times 8.$$

CLAIM 2

"A sunflower is 4 feet tall. A tree is 6 times as tall as the sunflower. So the tree is 24 feet taller than the sunflower."

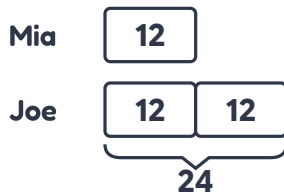
True **False** If it is false, write the correct fact. Explain the mistake.

False. The tree is 24 feet tall. It is $24 - 4 = 20$ feet taller than the sunflower.

GRAPHIC FROM THE SPORTS DESK

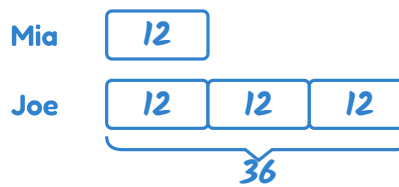
"Mia read 12 pages. Joe read 3 times as many pages as Mia." Caption: Joe read 24 pages.

As sent:



Caption: Joe read 36 pages.

Draw the corrected graphic.



The Comparison Times

EDITORIAL OFFICE · NO. 8 · PAGE 2

PROVE IT Check each claim yourself and show your proof.

CLAIM 3

"Theo has 15 cards. That is 6 fewer than Ava has. Max has 2 times as many cards as Ava. So Max has 42 cards."

☒ **True**
☐ **False**

Show how you checked. If it is false, correct it.

True. Ava has 6 more than Theo: $15 + 6 = 21$. Max has $2 \times 21 = 42$ cards.

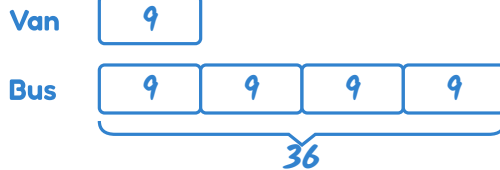
CLAIM 4

"The school bus holds 36 riders. That is 4 times as many riders as the van holds. So the van holds 9 riders."

☒ **True**
☐ **False**

Draw a tape diagram to check. Then explain.

Draw a tape diagram.



True. The bus is 4 vans: $36 \div 4 = 9$, so the van holds 9 riders.

THE EDITOR'S DESK Publish it: write two true headlines about these numbers.

A town has **9** dogs and **54** cats. Write one headline that uses "times as many" and one that uses "more than."

Times as many: *Town Has 6 Times as Many Cats as Dogs ($54 = 6 \times 9$)*

More than: *Town Has 45 More Cats Than Dogs ($54 - 9 = 45$)*