

Multiplication as Comparison

Name: _____

Grade 4 · "Times as many" as an equation, a sentence and a bar model

How it works

Leo has 4 shells. Mia has **3 times as many** shells as Leo.

So Mia has 3 groups of 4.

$3 \times 4 = 12$. Mia has 12 shells.

We say **12 is 3 times as many as 4**, and write $12 = 3 \times 4$.

Leo

4

Mia

--	--	--

] ?

$$? = 3 \times 4 = 12$$

A. Write an equation for each sentence.

- 35 is 5 times as many as 7. $\underline{\quad} = \underline{\quad} \times \underline{\quad}$
- 24 is 3 times as many as 8. $\underline{\quad} = \underline{\quad} \times \underline{\quad}$
- 54 is 6 times as many as 9. $\underline{\quad} = \underline{\quad} \times \underline{\quad}$
- 40 is 8 times as many as 5. $\underline{\quad} = \underline{\quad} \times \underline{\quad}$
- 63 is 7 times as many as 9. $\underline{\quad} = \underline{\quad} \times \underline{\quad}$
- 36 is 4 times as many as 9. $\underline{\quad} = \underline{\quad} \times \underline{\quad}$

B. Write the missing number in each sentence.

- 48 is $\underline{\quad}$ times as many as 8.
- 42 is $\underline{\quad}$ times as many as 6.
- 72 is $\underline{\quad}$ times as many as 8.
- 30 is $\underline{\quad}$ times as many as 10.

C. Each bar model compares two amounts. Find the number that goes where the ? is.

11.

Ana

7

Ben

--	--	--	--

] ?

$$? = \underline{\quad}$$

12.

Cal

?

Dee

--	--	--	--	--

] 40

$$? = \underline{\quad}$$

13.

Red

9

Blue

--	--	--

] ?

$$? = \underline{\quad}$$

14.

Gus

?

Hal

--	--	--	--	--	--

] 42

$$? = \underline{\quad}$$

Multiplication as Comparison (Answer Key)

Grade 4 · "Times as many" as an equation, a sentence and a bar model

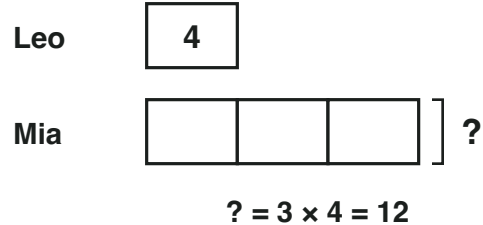
How it works

Leo has 4 shells. Mia has **3 times as many** shells as Leo.

So Mia has 3 groups of 4.

$3 \times 4 = 12$. Mia has 12 shells.

We say **12 is 3 times as many as 4**, and write $12 = 3 \times 4$.



A. Write an equation for each sentence.

1. 35 is 5 times as many as 7. $\underline{35} = \underline{5} \times \underline{7}$
2. 24 is 3 times as many as 8. $\underline{24} = \underline{3} \times \underline{8}$
3. 54 is 6 times as many as 9. $\underline{54} = \underline{6} \times \underline{9}$
4. 40 is 8 times as many as 5. $\underline{40} = \underline{8} \times \underline{5}$
5. 63 is 7 times as many as 9. $\underline{63} = \underline{7} \times \underline{9}$
6. 36 is 4 times as many as 9. $\underline{36} = \underline{4} \times \underline{9}$

B. Write the missing number in each sentence.

7. 48 is 6 times as many as 8.
8. 42 is 7 times as many as 6.
9. 72 is 9 times as many as 8.
10. 30 is 3 times as many as 10.

C. Each bar model compares two amounts. Find the number that goes where the ? is.

11.

Ana

7

Ben



? = 28

$$4 \times 7 = 28$$

12.

Cal

?

Dee



? = 8

$$40 \div 5 = 8$$

13.

Red

9

Blue



? = 27

$$3 \times 9 = 27$$

14.

Gus

?

Hal



? = 7

$$42 \div 6 = 7$$

In A, the two factors may be written in either order.