LESSON MAKER PRO

Times as Much

Read multiplication as a comparison.

GRADE 3 · TEKS 3.5.C

3.5.C "describe a multiplication expression as a comparison such as 3 x 24 represents 3 times as much as 24;"

NAME _____ DATE _____

READ THE FACTORS

A multiplicative comparison tells how many times one amount is another. On this sheet, write the number of times first: a × b means a times as much as b. Reversing factors gives the same product, but the story tells which factor names each role.

WORKED EXAMPLE

Describe 4 x 13 as a comparison.

1. Look at the first factor: 4.
2. Look at the second factor: 13.
3. Say "4 times as much as 13."

Answer: 4 times as much as 13

PRACTICE 6 problems

1 Describe 3 x 8 as a comparison.

ANSWER _____

2 Describe 6 x 7 as a comparison.

ANSWER _____

3 Write a multiplication expression for "5 times as much as 9."

ANSWER _____

4 Write a multiplication expression for "2 times as much as 14."

ANSWER _____

5 Describe 9 x 11 as a comparison.

ANSWER _____

6 Using this sheet's convention (number of times first), which comparison matches 8 × 5? A. 5 times as much as 8 B. 8 times as much as 5. Do both comparisons have the same value?

ANSWER _____

APPLY IT Show your work

1 Leo has 6 trading cards. His sister has 3 times as many trading cards as Leo. Write a multiplication expression and find how many trading cards his sister has.

WORK SPACE

ANSWER

2 At a game fair, Miles has 12 tickets. Jada has 5 times as many tickets as Miles. Write a multiplication expression and find how many tickets Jada has.

WORK SPACE

ANSWER

CHALLENGE One step up

Kai says 7 × 3 can represent 3 times as much as 7. Is the numerical result correct? Does that description follow this sheet's number-of-times-first convention? Explain both answers.

WORK SPACE AND ANSWER

ANSWER KEY

Times as Much

GRADE 3 · TEKS 3.5.C

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	Describe 3 x 8 as a comparison.	**3 times as much as 8**
2	Describe 6 x 7 as a comparison.	**6 times as much as 7**
3	Write a multiplication expression for "5 times as much as 9."	**5x9**
4	Write a multiplication expression for "2 times as much as 14."	**2 x 14**
5	Describe 9 x 11 as a comparison.	**9 times as much as 11**
6	Using this sheet's convention (number of times first), which comparison matches 8 × 5? A. 5 times as much as 8 B. 8 times as much as 5. Do both comparisons have the same value?	**B matches the stated convention. Both comparisons equal 40.**

PART 2 · APPLY IT

1. **18 trading cards** 3 x 6 = 18. His sister has 18 trading cards. The comparison is 3 times as many as 6, so write 3 x 6. Multiply to find 18.
2. **60 tickets** 5 x 12 = 60. Jada has 60 tickets. The comparison is 5 times as many as 12, so write 5 x 12. Multiply to find 60.

CHALLENGE

Yes, both 7 × 3 and 3 × 7 equal 21. The description does not follow this sheet's convention: under that convention, 7 × 3 is 7 times as much as 3. The story determines the roles; reversing factors does not change the product.

Accept times as many as for countable objects. Assess contextual factor roles separately from numerical equality. For convention questions, require the stated order; otherwise accept equivalent expressions with a correct explanation of each role.