LESSON MAKER PRO

Times as Many

Read comparisons and write multiplication equations.

GRADE 4 · 4.AT.A.1

4.AT.A.1 "Interpret a multiplication situation as a comparison (e.g., interpret 35 = 5 × 7 as a statement that 35 is 5 times as many as 7 and 7 times as many as 5)..."

NAME _____ DATE _____

THE BIG IDEA

A multiplication comparison tells how many times as many one amount is as another. Multiply the starting amount by the number of times to find the larger amount. In an equation, the larger amount equals the number of times multiplied by the starting amount.

WORKED EXAMPLE

A box holds 3 markers. A case holds 7 times as many markers as the box. Write an equation and find how many markers the case holds.

1. Start with the box amount: 3 markers.
2. Multiply by the number of times: 7 × 3 = 21.

Answer: 21 = 7 × 3. The case holds 21 markers.

PRACTICE 6 problems

1 30 = 5 × 6. Complete the comparison: 30 is ___ times as many as 6.

ANSWER _____

2 32 = 4 × 8. Complete the comparison: 32 is ___ times as many as 4.

ANSWER _____

3 Write a multiplication equation: 44 is 4 times as many as 11.

ANSWER _____

4 A shelf has 2 times as many puzzles as a bin with 12 puzzles. Write an equation using ___ for the number of puzzles on the shelf.

ANSWER _____

5 One sticker set has 45 stickers. That is 5 times as many as another set has. Write an equation using ___ for the number of stickers in the other set.

ANSWER _____

6 Complete both comparisons for 24 = 2 × 12: 24 is ___ times as many as 12, and 24 is ___ times as many as 2.

ANSWER _____

APPLY IT Show your work

1 At a school game fair, one team earns 14 tickets. Another team earns 4 times as many tickets. Write a multiplication equation and find how many tickets the other team earns.

WORK SPACE

ANSWER _____

2 Mina earns 90 points in a video game. That is 5 times as many points as Leo earns. Write a multiplication equation using ___ for Leo's points. Then find Leo's points.

WORK SPACE

ANSWER _____

CHALLENGE One step up

A class has 60 colored pencils. That is 5 times as many as the number of pencil cases and 10 times as many as the number of markers. Write an equation for each comparison. Find both unknown amounts, then explain how 60 can be both 5 times and 10 times as many.

WORK SPACE AND ANSWER

ANSWER KEY

Times as Many

GRADE 4 · 4.AT.A.1

PART 1 · PRACTICE

#	PROBLEM	ANSWER
1	30 = 5 × 6. Complete the comparison: 30 is ___ times as many as 6.	**5**
2	32 = 4 × 8. Complete the comparison: 32 is ___ times as many as 4.	**8**
3	Write a multiplication equation: 44 is 4 times as many as 11.	**44 = 4 × 11**
4	A shelf has 2 times as many puzzles as a bin with 12 puzzles. Write an equation using ___ for the number of puzzles on the shelf.	**___ = 2 × 12**
5	One sticker set has 45 stickers. That is 5 times as many as another set has. Write an equation using ___ for the number of stickers in the other set.	**45 = 5 × ___**
6	Complete both comparisons for 24 = 2 × 12: 24 is ___ times as many as 12, and 24 is ___ times as many as 2.	**2; 12**

PART 2 · APPLY IT

1. **56 = 4 × 14. The other team earns 56 tickets.** Multiply 14 by 4 to find the other team's tickets.
2. **90 = 5 × ___. Leo earns 18 points.** Divide 90 by 5 to find Leo's points, then check that 5 × 18 = 90.

CHALLENGE

60 = 5 × 12, so there are 12 pencil cases. 60 = 10 × 6, so there are 6 markers. The two comparisons start with different amounts.

Accept equations with the factors in either order. For the challenge, accept any explanation that identifies the different starting amounts.