ALBERT

Name _____ Date _____

Multiplicative Comparison Worksheet

Grade 4 · Common Core 4.OA.A.1

> Interpret a multiplication equation 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. Represent verbal statements of multiplicative comparisons as multiplication equations.

Practice

Builds the skill step by step.

1. Fill in the blank: 24 is ___ times as many as 6.

2. Which statement matches the equation 18 = 3 × 6?

   A. 6 is 3 times as many as 18.

   B. 18 is 6 more than 3.

   C. 18 is 3 more than 6.

   D. 18 is 3 times as many as 6.

3. What number is 7 times as many as 5?

4. Which equation shows "20 is 4 times as many as 5"?

   A. 20 = 4 × 5

   B. 20 = 4 + 16

   C. 5 = 4 × 20

   D. 4 = 20 × 5

5. 42 = 6 × 7. So 42 is 6 times as many as what number?

6. $32 = 4 \times 8$. So 32 is 8 times as many as what number?

7. Which sentence is NOT true about $36 = 4 \times 9$?

   A. 36 is 4 times as many as 9.

   B. 36 is 9 times as many as 4.

   C. 9 is 4 times as many as 36.

   D. 36 is the product of 4 and 9.

8. What number is 5 times as many as 8?

9. Let n be a number. "n is 3 times as many as 9." What is n?

10. Which equation matches "15 is 3 times as many as 5"?

    A. $15 = 5 - 3$

    B. $15 = 3 \times 5$

    C. $5 = 3 \times 15$

    D. $15 = 3 + 5$

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On Level

Grade-level practice.

1. Let n be a number. Which equation matches "n is 8 times as many as 6"?

   A. $n = 8 \times 6$

   B. $n = 8 + 6$

   C. $6 = 8 \times n$

   D. $n = 6 - 8$

2. Which pair of statements both describe $56 = 7 \times 8$?

   A. 8 is 7 times as many as 56, and 7 is 8 times as many as 56.

   B. 56 is 7 times as many as 8, and 56 is 8 times as many as 7.

   C. 56 is 7 times as many as 8, and 8 is 7 times as many as 56.

   D. 56 is 7 more than 8, and 56 is 8 more than 7.

3. 63 is 9 times as many as what number?

4. 48 is how many times as many as 6?

5. Tia says that $30 = 5 \times 6$ means "30 is 5 more than 6." Which is the correct way to read the equation?

   A. 30 is 5 times as many as 6.

   B. 30 is 6 more than 5.

   C. 6 is 5 times as many as 30.

   D. 30 is 11 more than 6.

6. Let p be a number. "p is 4 times as many as 12." Write an equation and find p.

7. "72 is 8 times as many as m." What is m?

8. In the table, each number in the right column is 3 times as many as the number beside it. What are the two missing numbers? Give the top one first.

Number	3 times as many
4	12
7	?
?	27

9. Which statement is a multiplicative comparison?

   A. Sam has 4 more books than Jo.

   B. Sam has 4 fewer books than Jo.

   C. Sam and Jo have 4 books in all.

   D. Sam has 4 times as many books as Jo.

10. Ella read 9 pages. Her sister read 5 times as many pages as Ella. How many pages did her sister read?

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Challenge

Multi-step and word problems that stretch it.

1. a is 6 times as many as 8. b is 8 times as many as 6. What is a − b?

2. Raj says that 35 = 5 × 7 means two things: "35 is 5 times as many as 7" and "7 is 5 times as many as 35." Which is true?

   A. Both statements are correct.

   B. Only the first statement is correct.

   C. Only the second statement is correct.

   D. Neither statement is correct.

3. "96 is 8 times as many as a number." What is the number?

4. A number is 4 times as many as 9. A second number is 3 times as many as the first number. What is the second number?

5. n is 7 times as many as 6. Then n is also 6 times as many as what number? Give n first, then the other number.

6. A tower is 9 times as tall as a shed. The shed is 4 meters tall. Which equation finds t, the height of the tower in meters?

   A. $t = 9 \times 4$

   B. $t = 9 + 4$

   C. $4 = 9 \times t$

   D. $t = 9 - 4$

7. Jada says that 7 times as many as 8 is the same number as 8 times as many as 7. Find both numbers. Give 7 times as many as 8 first.

8. 27 is 3 times as many as m, and m is 3 times as many as k. What is k?

9. Which situation matches the equation $40 = 8 \times 5$?

   A. A dog weighs 8 pounds. That is 5 times as much as a 40-pound cat.

   B. A dog weighs 40 pounds. That is 8 pounds more than a 5-pound cat.

   C. A dog weighs 45 pounds. That is 5 pounds more than a 40-pound cat.

   D. A dog weighs 40 pounds. That is 8 times as much as a 5-pound cat.

10. The product of 7 and some number is 84. So 84 is 7 times as many as what number?