Multiplicative Comparison Word Problems Worksheet

Grade 4 · Common Core 4.OA.A.2

> Multiply or divide to solve word problems involving multiplicative comparison, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem, distinguishing multiplicative comparison from additive comparison.

Practice

Builds the skill step by step.

1. A red ribbon is 4 feet long. A blue ribbon is 3 times as long as the red ribbon. How long is the blue ribbon?

2. Omar has 6 marbles. Kim has 5 times as many marbles as Omar. How many marbles does Kim have?

3. Lena has 8 shells. Ty has 4 times as many shells as Lena. Which equation finds s, the number of shells Ty has?

   A. $s = 4 \times 8$

   B. $s = 4 + 8$

   C. $s = 8 \div 4$

   D. $8 = 4 \times s$

4. A puppy weighs 9 pounds. Its mother weighs 7 times as much as the puppy. How much does the mother weigh?

5. A tree is 24 feet tall. It is 3 times as tall as a bush. How tall is the bush?

6. Which problem is solved by multiplying 5 × 6?

   A. Ana has 30 pens. That is 5 times as many as Ben. How many pens does Ben have?

   B. Ana has 6 pens. Ben has 5 fewer pens than Ana. How many pens does Ben have?

   C. Ana has 6 pens. Ben has 5 times as many pens as Ana. How many pens does Ben have?

   D. Ana has 6 pens. Ben has 5 more pens than Ana. How many pens does Ben have?

7. Max scored 7 points. Ivy scored 3 more points than Max. How many points did Ivy score?

8. Max scored 7 points. Zack scored 3 times as many points as Max. How many points did Zack score?

9. A book costs $6. A game costs $42. How many times as much does the game cost as the book?

10. A bike costs $80. That is 4 times as much as a helmet costs. How much does the helmet cost?

    A. $16

    B. $20

    C. $76

    D. $320

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On Level

Grade-level practice.

1. A school bus holds 48 students. A van holds 8 students. How many times as many students does the bus hold as the van?

2. Jamal saved $35. His sister saved 4 times as much money as Jamal. How much did his sister save?

3. A whale is 72 feet long. It is 9 times as long as a dolphin. How long is the dolphin?

4. Lily picked 9 apples. Rosa picked 36 apples. Which statement is true?

   A. Lily picked 4 times as many apples as Rosa.

   B. Rosa picked 4 times as many apples as Lily.

   C. Rosa picked 4 more apples than Lily.

   D. Rosa picked 27 times as many apples as Lily.

5. A pepper costs 60 cents. A melon costs 5 times as much as the pepper. How much more does the melon cost than the pepper? Give your answer in cents.

6. Which problem is solved by $45 - 9$?

   A. A rope is 45 inches long. It is 9 times as long as a string. How long is the string?

   B. A rope is 45 inches long. It is 9 inches longer than a string. How long is the string?

   C. A string is 9 inches long. A rope is 5 times as long. How long is the rope?

   D. A string is 9 inches long. A rope is 45 inches longer. How long is the rope?

7. A garden has 8 rose bushes. It has 7 times as many tulips as rose bushes. How many rose bushes and tulips are there in all?

8. A pencil is 7 inches long. A poster is 6 times as long as the pencil. A desk is 12 inches longer than the poster. How long is the desk?

9. A farmer has 63 chickens. That is 7 times as many as the number of goats. How many goats does the farmer have?

10. Nora has 5 stamps. Pablo has 20 stamps. Nora says, "Pablo has 15 times as many stamps as I do." What mistake did she make?

    A. She found how many more stamps Pablo has, not how many times as many. Pablo has 4 times as many.

    B. She should have added. Pablo has 25 times as many.

    C. She should have multiplied. Pablo has 100 times as many.

    D. She made no mistake.

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Challenge

Multi-step and word problems that stretch it.

1. A large box holds 96 crayons. That is 8 times as many crayons as a small box holds. How many crayons are in 3 small boxes?

2. An adult ticket costs $9. A family pass costs 6 times as much as an adult ticket. How much do 2 family passes cost?

3. Kai has 7 cards. Zoe has 4 times as many cards as Kai. Ava has 9 more cards than Zoe. How many cards do the three of them have in all?

4. A red balloon rises 15 meters. A blue balloon rises 45 meters. Which choice gives two true statements?

   A. The blue balloon rises 3 times as high, and it rises 30 meters higher.

   B. The blue balloon rises 3 times as high, and it rises 3 meters higher.

   C. The blue balloon rises 30 times as high, and it rises 30 meters higher.

   D. The blue balloon rises 30 times as high, and it rises 3 meters higher.

5. A jar has 8 blue beads. It has 5 times as many red beads as blue beads. How many more red beads than blue beads are in the jar?

6. Elk Trail is 36 kilometers long. That is 4 times as long as Birch Trail. Pine Trail is 3 times as long as Birch Trail. How long is Pine Trail?

7. A movie is 120 minutes long. That is 4 times as long as a TV show. How many TV shows would take the same total time as 2 movies?

8. Grace has $8. Henry has 3 times as much money as Grace. Then Henry spends $8. Now how many times as much money as Grace does Henry have?

9. A cow eats 9 times as much hay as a goat. The goat eats 4 pounds. Eli says the cow eats 9 + 4 = 13 pounds. How much does the cow really eat?

   A. 45 pounds, because $9 \times 5 = 45$

   B. 5 pounds, because $9 - 4 = 5$

   C. 13 pounds, because $9 + 4 = 13$

   D. 36 pounds, because $9 \times 4 = 36$

10. Rita has 6 times as many marbles as Tomas. Together they have 42 marbles. How many marbles does Tomas have?