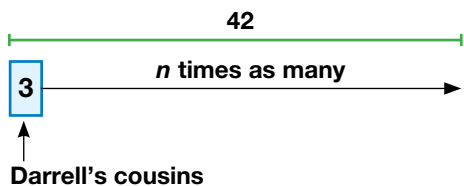


Homework & Practice 6-2

Continue to Solve Comparison Situations

Another Look!

Darrell has 3 cousins. Robert has 42 cousins.
How many times as many cousins does Robert have as Darrell?



Write a multiplication equation to compare the numbers of cousins.

Robert's = n times as many \times Darrell's
cousins as many cousins

$$42 = n \times 3$$

What number times 3 equals 42?

Since you know the original amount and the total, you need to divide to find how many times as many.



Write and solve a related division equation.

If $42 = n \times 3$, then $n = 42 \div 3$.

$$n = 14$$

Robert has 14 times as many cousins as Darrell.

$$\begin{array}{r} 14 \\ 3 \overline{)42} \\ \underline{-3} \\ 12 \\ \underline{-12} \\ 0 \end{array}$$

For **1–4**, complete the comparison sentence. Find the value of the variable that makes the sentence true.

1. There are 51 families in Oakville who have a pool. That is 3 times as many families with a pool than in Elmburg. How many families in Elmburg have a pool?

51 is 3 _____ n .

$$n = \underline{\quad} \div \underline{\quad}$$

$$n = \underline{\quad}$$

3. Marcy picked 3 times as many ounces of kale as Phil picked. Phil picked 42 ounces of kale. How many ounces of kale, k , did Marcy pick?

3 _____ 42 is k .

$$k = \underline{\quad} \times \underline{\quad}$$

$$k = \underline{\quad}$$

2. Gilbert walked 288 minutes. That is 4 times as many minutes as Eileen walked. How many minutes, m , did Eileen walk?

288 is 4 _____ m .

$$\underline{\quad} \div \underline{\quad} = m$$

$$m = \underline{\quad}$$

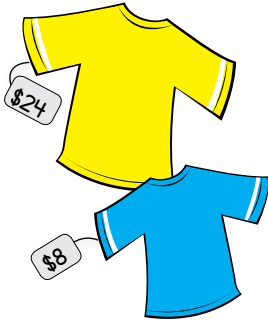
4. Jennifer feeds 5 times as many fish as Tony. Tony feeds 56 fish. How many fish, f , does Jennifer feed?

5 _____ 56 is f .

$$5 \times \underline{\quad}$$

$$f = \underline{\quad}$$

5. **Algebra** How many times as much does the yellow T-shirt cost as the blue T-shirt? Draw a bar diagram and write and solve an equation.



6. **Algebra** Mason is 9 years old. His mother's age is 4 times Mason's age. How old is Mason's mother? Draw a bar diagram and write and solve an equation.



7. **MP.3 Critique Reasoning** Hilary walked 654 feet in 3 minutes. She says she walked about 200 feet per minute. Is Hilary's estimate reasonable? Explain.

8. **Higher Order Thinking** The value of n is both 5 times as much as the value of m and 36 more than the value of m . What are the values of n and m ? Explain.

Common Core Assessment

9. Debbie has 8 quarters and 24 pennies in her piggy bank. She has n times as many pennies as quarters. Which equation can be used to find n ?

- (A) $n = 8 \times 24$
- (B) $24 = 4 + n$
- (C) $24 = n \div 8$
- (D) $24 = n \times 8$

10. Marcus plays basketball 42 hours a week. This is 6 times as many hours as he plays chess. How hours a week does Marcus play chess?

- (A) 6 hours
- (B) 7 hours
- (C) 8 hours
- (D) 9 hours