

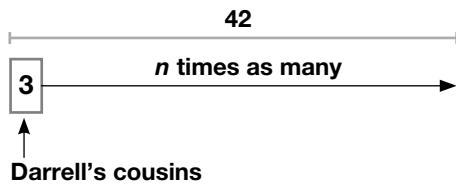
Additional Practice 6-2

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?

Let n = the number of times as many.



Write a multiplication equation to compare the numbers of cousins.

42 is n times as many as 3.

$$42 = n \times 3$$

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.

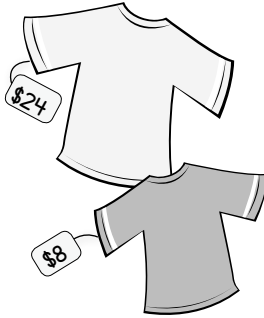
$$\begin{array}{r} 4 \\ 3 \overline{)42} \\ \underline{-30} \\ 12 \\ \underline{-12} \\ 0 \end{array} \left. \vphantom{\begin{array}{r} 4 \\ 10 \\ 3 \\ -30 \\ 12 \\ -12 \\ 0 \end{array}} \right\} 14$$

For 1–4, write a comparison sentence and an equation. Find the value of the variable that makes the sentence true.

- 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, n , have a pool?
- Gilbert walked 288 minutes. That is 4 times as many minutes as Eileen walked. How many minutes, m , did Eileen walk?
- 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?
- Jennifer feeds 5 times as many fish as Tony. Tony feeds 56 fish. How many fish, f , does Jennifer feed?



5. **Algebra** The yellow T-shirt costs how many times as much 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. **Reasoning** Hilary walked 654 feet in 3 minutes. She says she walked 218 feet per minute. Is Hilary's answer 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.

Assessment Practice

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 ?  4.OA.1.1

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

10. Marcus sleeps 60 hours a week. This is 5 times as many hours as he plays chess. How many hours a week does Marcus play chess?  4.OA.1.1

- (A) 11 hours
- (B) 12 hours
- (C) 13 hours
- (D) 14 hours