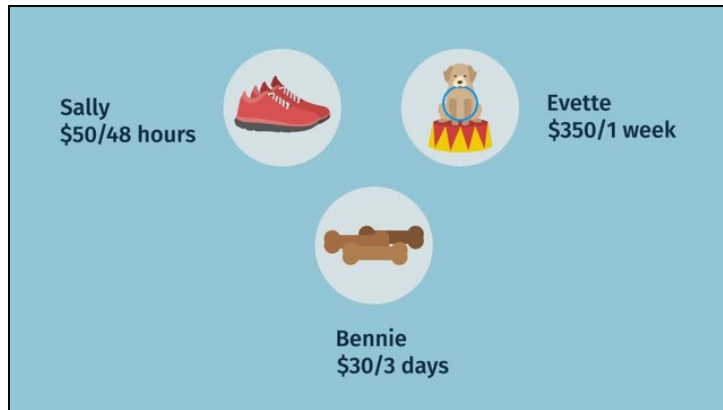


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# Problem Solving Using Rates, Unit Rates, and Conversions



- 1 **Convert simple units.**
- 2 Utilize rate to compare and solve a work problem.
- 3 Compare using a unit rate.
- 4 Identify the work problems that can be solved by finding a rate.
- 5 Solve unit rate word problems.
- 6 Identify the correct solutions to the word problem.
- + with many hints, answer keys, and solution approaches for all tasks



The complete package, **including all tasks, hints, solutions, and solution approaches**, is available to all subscribers of [sofatutor.com](https://www.sofatutor.com)

Match the corresponding values.

[illegible]

## Our hints for the tasks



### Convert simple units.

#### 1. Hint

There are 12 inches in 1 foot, and 2.54 centimeters in 1 inch.

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#### 2. Hint

7 feet are 84 inches.

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#### 3. Hint

7 feet are 213.36 centimeters.

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## Solutions and solution approaches for the tasks



### Convert simple units.

**Answer key:** A: 2, 8 // B: 1, 6 // C: 4, 7 // D: 3, 5

There are 12 inches in 1 foot, and 2.54 centimeters in 1 inch. To convert feet to inches, multiply by 12. To convert feet to centimeters, first multiply by 12, then by 2.54.

#### 5 feet

- There are 60 inches in 5 feet:  $5(12) = 60$
- There are 152.4 centimeters in 5 feet:  $5(12)(2.54) = 152.4$

#### 5.75 feet

- There are 69 inches in 5.75 feet:  $5.75(12) = 69$
- There are 175.26 centimeters in 5.75 feet:  $5.75(12)(2.54) = 175.26$

#### 6 feet

- There are 72 inches in 6 feet:  $6(12) = 72$
- There are 182.88 centimeters in 6 feet:  $6(12)(2.54) = 182.88$

#### 6.5 feet

- There are 78 inches in 6.5 feet:  $6.5(12) = 78$
- There are 198.12 centimeters in 6.5 feet:  $6.5(12)(2.54) = 198.12$