



Short-response questions in this textbook are usually worth a maximum of 2 points. To get full credit you need to give the correct answer (including appropriate units, if applicable) and justify your reasoning or show your work.

EXAMPLE

The cost for using a phone card is 35 cents per call plus 25 cents per minute. A recent call cost \$12.35. Write and solve an equation to find the length of the call.

The problem is asking you to do three things: (1) use a variable to set up an equation, (2) solve the equation, and (3) find the length of the call. Below is a rubric that shows the number of points awarded for different types of answers.

Scoring Rubric

- [2] The equation and the solution are correct. The call took 48 minutes.
- [1] There is no equation, but there is a method to show that the call took 48 minutes.
- [1] There is an equation and a solution, both of which may contain minor errors. The solution indicates the time, but does not show the units.
- [0] There is no response, it is completely incorrect, or it is a correct response, but no procedure is shown.

Three responses are below with the points each received.

2 points	1 point	0 points
Let $n =$ number of minutes. $1235 = 35 + 25n$ $1200 = 25n$ $48 = n$ The call took 48 minutes.	$\frac{12.35 - 0.35}{0.25} = 48$ 48 minutes	48 minutes

EXERCISES

Use the rubric above to answer each question.

- Explain why each response above received the indicated points.
- Write a 1-point response that begins with a correct equation.
- Write a 2-point response that includes the equation $0.35 + 0.25n = 12.35$.
- Error Analysis** Suppose a student used the equation $25x + 35 = 12.35$. Explain why this equation is incorrect.