

LESSON 26: Real-World Systems and Applications

Homework

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1. Roxanne is two years older than Monica. The sum of their ages is 30. How old is each?

What is this problem asking you to find?

2. Which of the following is the best estimate for the age of Roxanne for Problem 1?
- A. Roxanne's age will be less than Monica's age.
 - B. Roxanne's age will be more than Monica's age.
 - C. Roxanne and Monica will have the same age.
 - D. Roxanne's age will be greater than 30.

3. The width of a rectangle is three times the length. The perimeter is 80 inches. What is the length of the rectangle?

Which of the following equations could be used to find the length of the rectangle?

- A. $3l = w$
 $l + w = 80$
- B. $3l = w$
 $2l + 2w = 80$
- C. $l = 3w$
 $l + w = 80$
- D. $l = 3w$
 $2l + 2w = 80$

4. Which of the following is the best estimate for the length of the rectangle for Problem 3 above?
- A. The width will be the same as the length.
 - B. The width of the rectangle will be less than the length.
 - C. The length of the rectangle will be less than the width.
 - D. The length of the rectangle will be greater than 80.

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Directions: For 5–9: Complete the five steps of the SOLVE process for the problem below.

Tiffany has 20 coins that are nickels and dimes. The total value of the coins is \$1.75. How many nickels and dimes does she have?

5. S – Underline the question.
This problem is asking me to find _____.

6. O – Identify the facts.
Eliminate the unnecessary facts.
List the necessary facts.

7. L – Choose an operation or operations.
Write in words what your plan of action will be.

8. V – Estimate your answer.
Carry out your plan.

9. E – Does your answer make sense? (Compare your answer to the question.)
Is your answer reasonable? (Compare your answer to the estimate.)
Is your answer accurate? (Check your work.)
Write your answer in a complete sentence.

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- 10.** In a famous chili recipe the dry ingredients include 9 parts chili powder, 3 parts salt, 2 parts cumin, and 1 part pepper. How many ounces of each ingredient will there be needed to make a total of 30 ounces of the mixture?
- S** Underline the question.
This problem is asking me to find _____.
- O** Identify the facts.
Eliminate the unnecessary facts.
List the necessary facts.
- L** Choose an operation or operations.
Write in words what your plan of action will be.
- V** Estimate your answer.
Carry out your plan.
- E** Does your answer make sense? (Compare your answer to the question.)
Is your answer reasonable? (Compare your answer to the estimate.)
Is your answer accurate? (Check your work.)
Write your answer in a complete sentence.