

Additional Practice 2-6 Model with Math

Another Look!

For her birthday, Lucy received \$20 from her aunt, \$15 from her grandmother, and \$32 from her cousins. She bought an e-book for \$10.85. How much birthday money does Lucy have left?

Show how you can model this problem.

I can use bar diagrams and equations to represent and solve this problem.

How much money did Lucy receive?



$$\$20 + \$15 + \$32 = \$67 \text{ received}$$

How much money does Lucy have left?



$$\$67.00 - \$10.85 = \$56.15 \text{ Lucy has } \$56.15 \text{ left.}$$

You can model with math by using bar diagrams to show the relationships between the whole and the parts.



Model with Math

Jeffrey earned \$65 doing yard work. He bought a pair of jeans for \$31.25 and a sweatshirt for \$16.50. He set aside the money left from his shopping trip to buy a gift for his cousin. How much money did he set aside for the gift?

1. What do you need to find before you can solve the problem?

The total amount of money Jeffrey spent

2. Draw bar diagrams to represent the problem.

Check students' diagrams.

Remember, a bar diagram clearly shows how the quantities in the problem are related.

3. Write equations to represent the problem. Then solve the problem.

**$\$31.25 + \$16.50 = \$47.75$; $\$65 - \$47.75 = \$17.25$;
He set aside \$17.25 for the gift.**



Performance Task

Snowfall

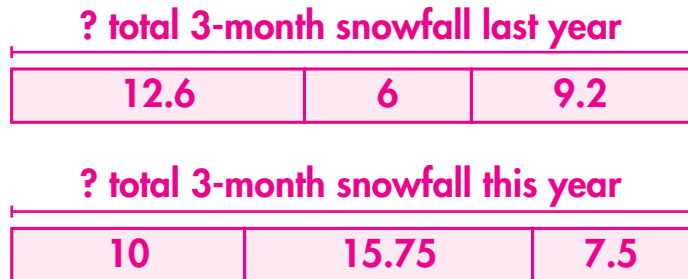
The total snowfall for last year was 36.4 inches. The graph shows snowfalls for 3 months last year and for the same 3 months this year. Find how much greater this year's 3-month snowfall was than last year's.

4. **Make Sense and Persevere** Do you need all of the information given to solve the problem? Explain.

No; I don't need the total snowfall for last year.

5. **Model with Math** Draw bar diagrams to represent last year's total 3-month snowfall and this year's total 3-month snowfall. Then find the total 3-month snowfalls for each year.

$12.6 + 6 + 9.2 = 27.8$ inches 3-month snowfall last year; $10 + 15.75 + 7.5 = 33.25$ inches 3-month snowfall this year

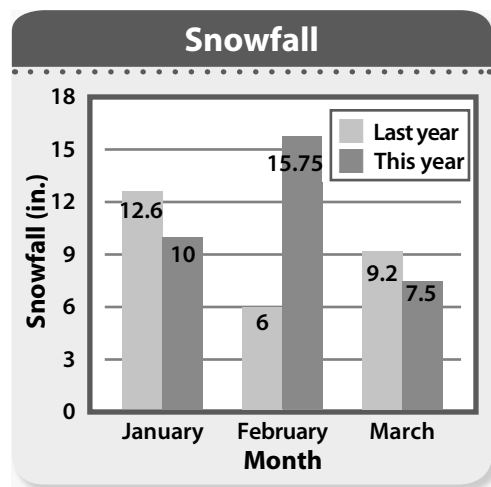


6. **Model with Math** Write and solve an equation to find how much greater this year's 3-month snowfall was than last year's.

5.45 inches more; $33.25 - 27.8 = 5.45$

7. **Reasoning** Describe a way to determine how much more snow needs to fall so this year's total is 37.4 inches. Then find the answer.

Write an equation to find the difference between 37.4 and the total snowfall for this year so far. $37.4 - 33.25 = 4.15$ in.



When you model with math, you decide what steps need to be completed to find the final answer.

