



Practice



Video



Tools



Games

Additional Practice 4-7

Make Sense and Persevere

Another Look!

April needs to arrange 18 baskets with each containing 15 silk plants. She needs 8 silk flowers on each plant. How many silk flowers will be in all the baskets?

Tell how you can make sense of the problem to solve.

- I can identify the quantities given.
- I can understand how the quantities are related.
- I can choose and implement an appropriate strategy.

When you make sense and persevere, you use objects or diagrams to make sense of problems.



Find how many silk plants April needs.

$$\begin{aligned}
 p &= 15 \text{ plants} \times 18 \text{ baskets} \\
 15 \times 18 &= 15 \times (20 - 2) \\
 &= (15 \times 20) - (15 \times 2) \\
 &= 300 - 30 \\
 &= 270
 \end{aligned}$$

April needs 270 silk plants.

Then, find how many silk flowers will be in all the baskets.

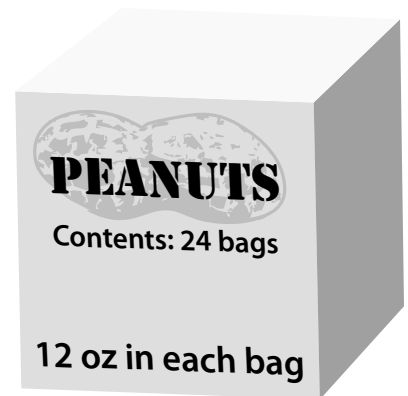
$$\begin{aligned}
 f &= 270 \text{ plants} \times 8 \text{ flowers} \\
 8 \times 270 &= 8 \times (200 + 70) \\
 &= (8 \times 200) + (8 \times 70) \\
 &= 1,600 + 560 \\
 &= 2,160
 \end{aligned}$$

There will be 2,160 flowers in all the baskets.

Make Sense and Persevere

A store received a shipment of 4 boxes of peanuts. All four boxes were stacked on top of each other and measured 12 feet high. How many ounces of peanuts did the store receive? Use Exercises 1–4 to answer the question.

1. What do you know and what do you need to find?
2. What steps might you take to solve the problem?
3. Do you think the store got more or less than 800 ounces of peanuts? Justify your answer.
4. How many ounces of peanuts did the store receive? Explain.



Performance Task

Cameras


A purchasing manager for an electronics store has a choice between two digital cameras. Information about each camera is shown below. How much money can the store make with Camera 1? The money the store makes is the difference in the price of what the store sells the camera for and the price of what the store pays to buy the camera.




Camera 1
Store price: 46
Selling price: 85
Store can buy: 21



Camera 2
Store price: 62
Selling price: 98
Store can buy: 16

5. **Make Sense and Persevere** What are the hidden questions that must be answered before finding the solution to the problem?  MP.1.1

6. **Model with Math** How can you use objects, pictures, or diagrams and equations to represent and solve this problem?  4.NBT.2.5, MP.4.1

7. **Look for Relationships** How can you tell that your answer makes sense? Explain.  4.NBT.2.5, MP.7.1

When you make sense and persevere, you choose and implement an appropriate strategy to solve the problem.

