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Models You Can Count On Unit Test
Use additional paper as needed.

## School Garden

Springville Middle School orders three different types of bulbs for the students to plant. In early October, thirty-two students are selected to plant various amounts of lilies, tulips and alliums.
Each of the 32 students will plant one lily bulb.

1. What is the price for the lily order? Use the ratio table below to calculate the price for ordering 32 lily bulbs. Add more columns if necessary.

| Number of Lily Bulbs | 2 |  |  |  |
| :--- | :---: | :--- | :--- | :--- |
| Price (in dollars) | 7.50 |  |  |  |



Each of the 32 students will get three tulip bulbs to plant. 1 package of 6 bulbs costs $\$ 8.25$.
2. a. How many tulip bulbs will they need altogether?
b. What will be the total cost for tulip bulbs that need to be ordered? Show your work.


Tulips 6 bulbs for $\$ 8.25$


Allium
1 package of 5 bulbs for $\$ 7.99$

## Fund Raising

All students of Springville Middle School will raise money for the school library. The goal is to collect a total of $\$ 6,000$ from fall to spring. Each month, the total amount collected will be shown on the "thermometer," as pictured on the right.
4. How much money was collected by the end of October? Feel free to write on the thermometer

By the end of December, the total amount collected is about \$2,000 out of $\$ 6,000$.
5. a. Fill in the bar below to indicate that $\$ 2,000$ is collected so far.

b. What percentage was reached on the bar above?

In late April, the fund raising thermometer is at $95 \%$.
6. How much money do they still need to reach their goal? Show your calculations.

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## Speed Limit

These signs are on a road in Mitchell, South Dakota.
On each sign, the numbers at the bottom show the speed limit in kilometers per hour.

8. a. What do the numbers on top of the signs represent?
b. Use the information shown in the drawings to create a new sign. Show how you calculated the numbers in the new sign.
c. A new sign is needed for a school zone with a speed limit of 20 miles per hour. What should the bottom number on the new sign be?


d. The Thalys high speed train in Europe has a top commercial speed of 300 kilometers per hour. Use the information on the signs from problem 8 to help you estimate the train's speed in miles per hour.

# Models You Can Count On Unit Test Solution and Scoring Guide 




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