

# Estimating and Checking Weight

NCTM Standards 1, 4, 6, 7, 8, 9, 10

## Answer the questions.

- 1 An elevator can hold 2,000 kilograms. An average adult weighs 64 kilograms. About how many people can go on an elevator at once?

about \_\_\_\_\_ people

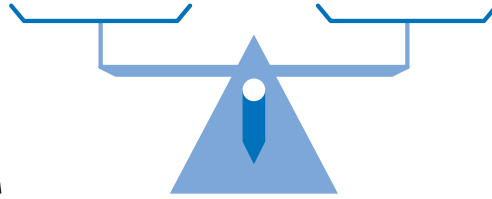
- 2 The Ramon family is moving to another country. They will ship all of their belongings on a boat. The cargo space they are renting can hold 1,000 kilograms. They have 4 beds that each weigh 50 kilograms, 4 sofas that each weigh 55 kg, 4 dressers that each weigh 60 kg, and a table and chairs that weigh 112 kg. About how much more weight can they ship?

about \_\_\_\_\_ kg

- 3 The second floor of a factory stores boxes that weigh about 15 kg each. The floor can hold 4,590 kg. About how many boxes can be stored on the second floor?

about \_\_\_\_\_ boxes

How can these weights be used to measure the following weights on a balance scale?



4 4 kg \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



5 14 kg \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



6 3 kg \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



7 10 kg \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



8 **Challenge** Are there any other weights that can be measured with just a balance scale and a 7 kg, an 11 kg, and a 21 kg weight?

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_