Measurement Conversions

Name .... Date ....

You Choose! Pick any problem to start with.

1 The table shows the weight for U.S. coins in grams.

What is the maximum and minimum sum you can get if you have exactly 1 kilogram of coins?

Coin	Approximate weight (grams)
penny	2.5
nickel	5
dime	2.3
quarter	5.7

ⓘ **Show or explain your thinking.**

Name .... Date ....
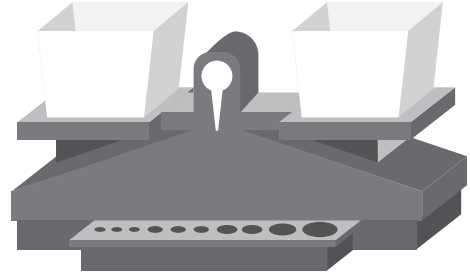
2 Here is a balance scale.

Which set of weights is sufficient to weigh any whole weight:

• from 1 to 5 kilograms
• from 1 to 15 kilograms
• from 1 to 40 kilograms

if the weights can only be placed on one scale pan?

ⓘ Show or explain your thinking.

Which set of weights is sufficient to weigh any whole weight

• from 1 to 3 kilograms
• from 1 to 10 kilograms
• from 1 to 30 kilograms

if the weights can be placed on both scale pans?

ⓘ Show or explain your thinking.

Name .... Date ....

3 Han has 2 containers. One has a capacity of 3 liters, and the other has a capacity of 5 liters. How could he use the containers to collect 4 liters of water?

ⓘ Show or explain your thinking.

What if one has a capacity of 8 liters and the other has a capacity of 5 liters? How could he use the containers to collect 7 liters of water?

ⓘ Show or explain your thinking.