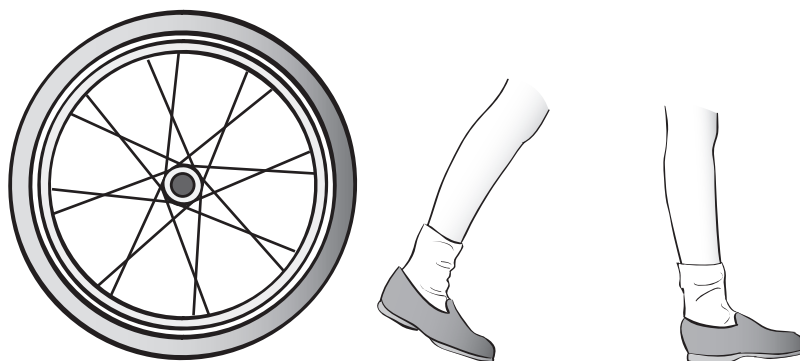


MATH EXTENSION—PROBLEM OF THE WEEK
.....**Investigation 1: The First Straw**

A girl and boy wanted to estimate the length of the playground. It was not important that they have an exact measurement, but they wanted some idea of how big it was for a field day they were planning.

The girl decided to measure the playground by walking across it. She marked off one walking step and found it was 50 cm long. The boy decided to measure by using the wheel on his wheelchair. The girl measured the circumference of the wheel and found out that it was 2 m around. Then they walked and wheeled across the playground to see how big it was.

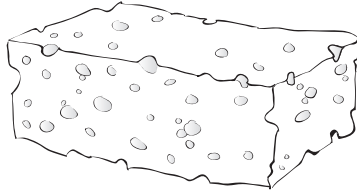
If the boy counted 40 full turns of his wheel, from one end of the playground to the other, how many walking steps did the girl take to cover the same distance?



MATH EXTENSION—PROBLEM OF THE WEEK
.....

Investigation 2: Fact of the Matter

A 1 g sponge can soak up 5 g of water.



1. How many grams of water can a 40 g sponge soak up?
2. What is the mass of a sponge that can soak up 150 g of water?
3. How many grams of water can a 25 g sponge soak up?
4. If you have a 40 g sponge, how many soaks will it take to soak up 1 L of water?

MATH EXTENSION—PROBLEM OF THE WEEK
.....

Investigation 3: Changing Matter

A girl was planning to visit one of two cousins for her vacation. She was having a hard time deciding which one to visit, so she decided she would check the newspaper for the next 5 days, then visit the cousin who lived in the city with the highest average temperature.

She recorded these temperatures the third week of June.

	Dallas	Miami
Monday	31°C	30°C
Tuesday	30°C	30°C
Wednesday	36°C	36°C
Thursday	28°C	32°C
Friday	30°C	32°C

Which cousin do you think she decided to visit?

MATH EXTENSION—PROBLEM OF THE WEEK
.....**Investigation 4: Mixtures**

A student just completed an investigation on mixtures, but he forgot to record all his data into his notebook. Help the student by completing his data table for the mass of his materials and their mixtures.

Table of Mixtures

Material	Mass of material	Mass of mixture	Mass after separation
Small beads	6 g		6 g
Large beads	13 g		
Metal paper clips		12 g	5 g
Plastic paper clips	7 g		
Pebbles	9 g		
Marbles			8 g
Water	50 g	59 g	
Gummy candy			9 g
Rice	30 g		
Water	25 g		