

Name _____

Date _____

MATH EXTENSION A

.....

Investigation 1: Sound and Vibrations

A girl counted the number of ears in her family.
Her family has eight ears.

Her cousin lives with his mother, father, and two brothers.

Who has more ears in their family, the girl or her cousin?

Name _____

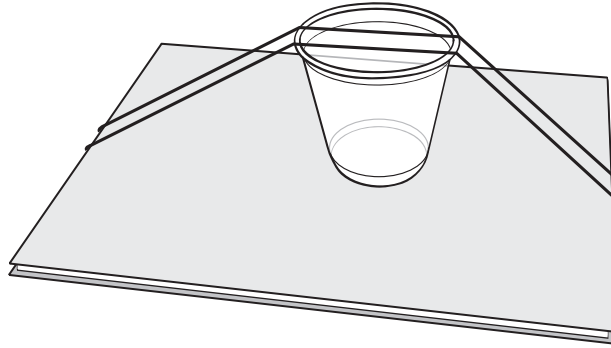
Date _____

MATH EXTENSION B

Investigation 1: Sound and Vibrations

A teacher wants to make several book fiddles.

Each book fiddle needs 2 rubber bands, 1 cup, and 1 book.



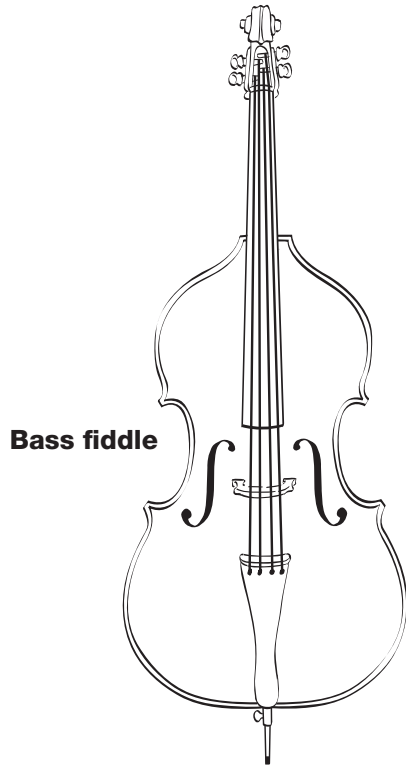
The teacher has 9 rubber bands, 4 cups, and 6 books.

How many book fiddles can she make?

MATH EXTENSION

Investigation 2: Changing Sound

Kathy, Linda, and David play in the school orchestra.
 One plays the bass fiddle, one plays the cello, and the third plays the violin.
 Use the clues to figure out which instrument each person plays.



1. A girl plays violin.
2. Linda’s instrument is not the lowest pitched.
3. The pitch of David’s instrument is between the pitch of the instruments played by the girls.

Use this table to keep track of your thinking.

	Bass	Cello	Violin
Kathy			
Linda			
David			

Name _____

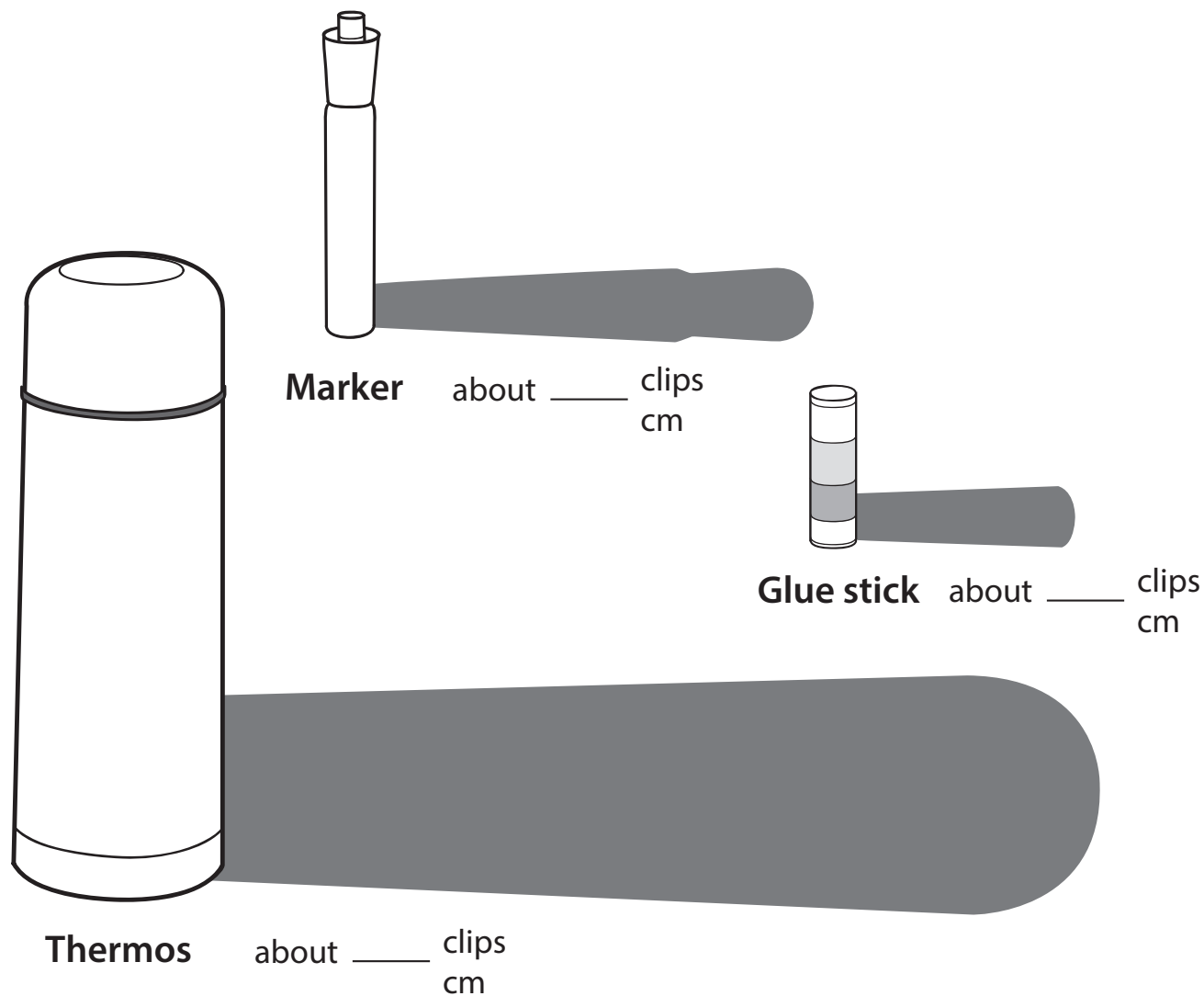
Date _____

MATH EXTENSION

.....

Investigation 3: Light and Shadows

A student took three objects outside to look at their shadows. He had a marker, a glue stick, and a metal thermos.



Which shadow is longer than the marker's shadow?

Which shadow is shorter than the marker's shadow?

How long is each shadow? Write the number next to the shadow.

Name _____

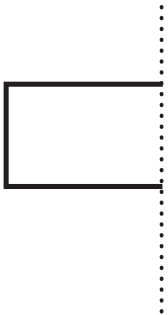
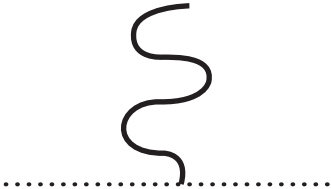


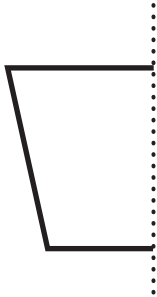



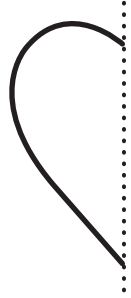
Date _____

MATH EXTENSION

Investigation 4: Light and Mirrors

Put the mirror on the dotted lines below.

Does the reflection make a shape? What shape do you see?

 <p>Makes a shape? Yes or No Name of shape _____</p>	 <p>Makes a shape? Yes or No Name of shape _____</p>	 <p>Makes a shape? Yes or No Name of shape _____</p>
 <p>Makes a shape? Yes or No Name of shape _____</p>	 <p>Makes a shape? Yes or No Name of shape _____</p>	 <p>Makes a shape? Yes or No Name of shape _____</p>
 <p>Makes a shape? Yes or No Name of shape _____</p>	 <p>Makes a shape? Yes or No Name of shape _____</p>	 <p>Makes a shape? Yes or No Name of shape _____</p>