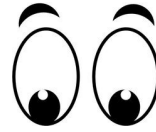


Mrs. MacLeod

Thursday, November 28

Listening to the math

Observations



Observations 1
Instruments 1
Fractions 2
Length 3
Notes 4
Guitars 5
Trombone 6
Drums 7



The Instruments

Total number of instruments _____

Total number of musicians _____

Instrument

Number

Fraction

%

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

Hear the Fractions

The image shows four musical staves, each with a treble clef and five lines. The staves are divided into five measures each. Below each staff, vertical tick marks indicate the placement of notes. The first staff has five single tick marks, one in each measure. The second staff has ten tick marks, two in each measure, with a fraction $\frac{1}{2}$ written below each pair. The third staff has twenty tick marks, four in each measure, with a fraction $\frac{1}{4}$ written below each group of four. The fourth staff has forty tick marks, eight in each measure, with a fraction $\frac{1}{8}$ written below each group of eight.

Listening to the math

How does the length of an instrument change the sound it makes?




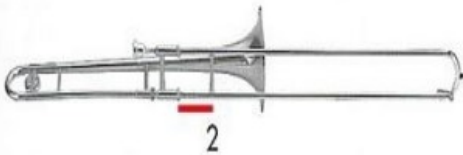
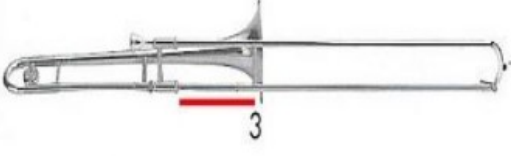
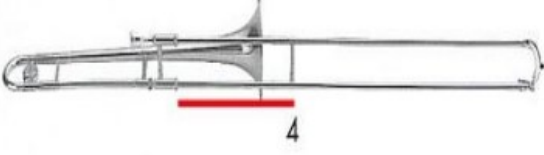
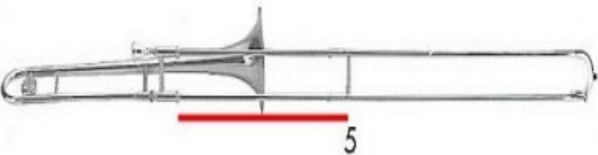
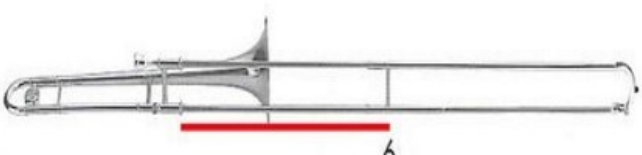
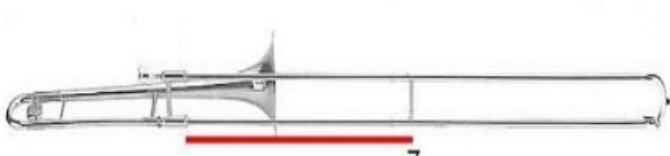
We noticed that a long instrument makes a _____ sound while a shorter instrument makes a _____ sound.



Listening to the Math

How do you know where the positions are on the trombone?

How does the sound change when you play a different note?

 1	-----cm	<input type="checkbox"/>
 2	-----cm	<input type="checkbox"/>
 3	-----cm	<input type="checkbox"/>
 4	-----cm	<input type="checkbox"/>
 5	-----cm	<input type="checkbox"/>
 6	-----cm	<input type="checkbox"/>
 7	-----cm	<input type="checkbox"/>

Listening to the math

How does the volume of a drum affect the sound?

Drum	Height	Diameter	Sound

Is there a pattern?

Is there a pattern?

