

Name: _____

Unit 6 Study Guide

Multiply

$6.4 \times 10^3 = \underline{\hspace{2cm}}$

$5.23 \times 10^2 = \underline{\hspace{2cm}}$

$21.8 \times 10^1 = \underline{\hspace{2cm}}$

Divide

$6.4 \div 10^3 = \underline{\hspace{2cm}}$

$5.23 \div 10^2 = \underline{\hspace{2cm}}$

$21.8 \div 10^1 = \underline{\hspace{2cm}}$

Convert between meters (m) and kilometers (km) to complete the "What's My Rule?" table. Then write a rule using a power of 10 in exponential notation.

Rule:

In (m)	Out (km)
1000	1
2500	
25	
	0.36
	0.234

Pete is doing a 5 kilometers walk for charity. He's already walked 3,500 meters. How many more kilometers does he have to walk to get to the finish line?

Answer: _____

A rectangular one-story school lunchroom has an area of 1,200 square feet. The ceilings are 9 feet high. What is the volume of the interior of the lunchroom?

Number model: _____

Volume: _____ cubic feet

The school district decided to add a second floor to the lunchroom. The second floor is 70 feet long and 60 feet wide with ceilings that are 9 feet tall. What is the volume of the interior of the second floor?

Number model: _____

Volume: _____ cubic feet

What is the total volume of the interior of the lunchroom? (Both floors)

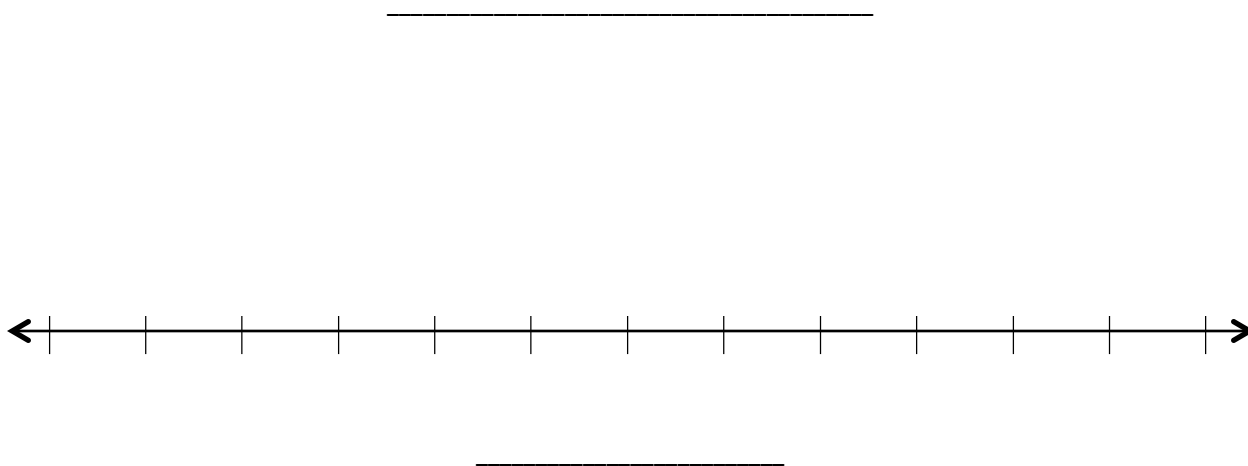
Number model: _____

Volume: _____ cubic feet

An art teacher orders gallons of paint every couple of months for her classroom. Here are the amounts she ordered throughout a school year.

3	$2\frac{1}{2}$	$3\frac{3}{4}$	$1\frac{1}{4}$	$2\frac{1}{2}$	$3\frac{1}{4}$	$3\frac{3}{4}$	$2\frac{3}{4}$	$2\frac{1}{2}$	1	$3\frac{1}{4}$
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Complete the line plot using the teacher's data. Remember to add a title and label.



What were the most common gallons of paint ordered at one time? _____

What are the combined gallons of the 5 largest amounts ordered?

Number Model: _____

The combined gallons are _____ gallons.

What is the difference between the smallest amount and largest amount of paint ordered at one time?

Number Model: _____

The difference is _____ gallons.