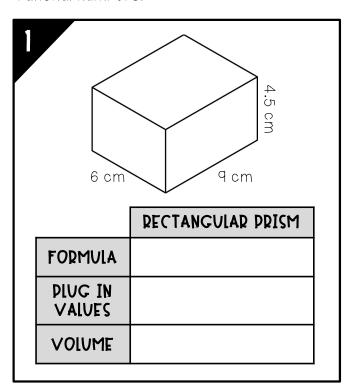
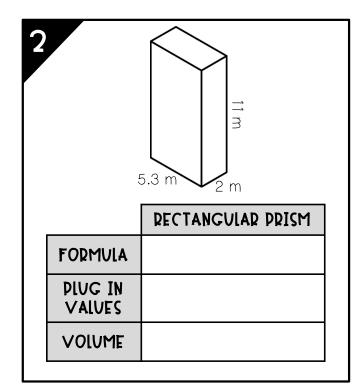
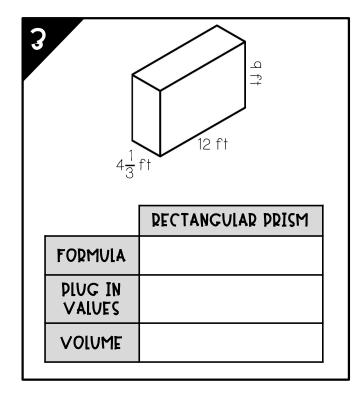
Unit: Geometry Student Handout 10 Name ______
Date _____Pd____

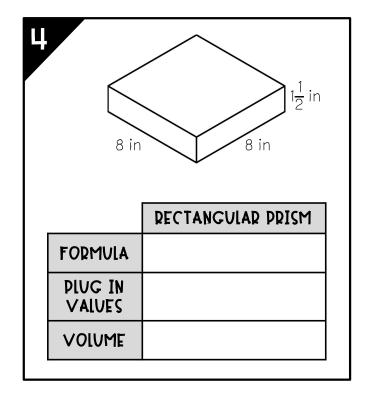
VOLUME WITH PATIONAL LENGTHS

Use your understanding of finding the volume of rectangular prisms to solve problems with rational numbers.









Practice applying volume to th	e real-world situations below.					
5. A clothes dresser is the shape of a rectangular prism. The dresser has a height of 3 feet, a						
width $8\frac{1}{5}$ feet, and a depth of 2 feet. How many cubic feet will the dresser hold?						
I KNOM:	I NEED TO KNOM:					
PLAN AND WORK:	SOLUTION:					
Lini this Lock.	301011013					
6. A shipping crate is advertised to hold up to 2	4 cubic feet. If a box in the shape of a					
rectangular prism measures 2 ft by $1\frac{1}{2}$ ft by 0.8	ft, how many boxes will the shipping crate hold?					
I KNOM:	I NEED TO KNOM:					
DIAN AND MODV:	COLUTION:					
DIAN AND WORK:	SOLUTION:					
DIAN AND MODK:	SOLUTION:					
PLAN AND WORK:	SOLUTION:					
PLAN AND WORK:						
DIAN AND MODK:	SOLUTION:					
7. A music stereo is packed in a boxed shaped I 32 in by 12.2 in. What is the volume of box?						
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Summarize today's lesson:

Unit:	Geom	netry
Home	work	10

Name		
Date	Pd	

VOLUME WITH PATIONAL LENGTHS

Solve each of the questions in the left column. Then, draw a line to the solution in the right column. After all the questions have been completed, unscramble the remaining letters to form the name of a mystery character.

1. A filing cabinet measures 5 feet high, 18 inches wide and _ 2 feet deep. What is the volume of the filing cabinet?	Q	D	B C	1,224
2. A moving truck claims to hold 300 cubic feet of boxes. The truck is 25 feet in length and 8 feet in height. What is the width of the moving truck?	M	ν ; D	7 -	- 15
3. A pair of children's shoes comes in a box measuring 10.2 cm by 15 cm by 8 cm. What is the volume of the shoe box?	V	P	A V	- 686
4. A stack of bricks has a base with an area of 38 inches ² . If the height is 12 inches, what is the volume?	O -	W	p _	1.5
5. A packing box is being filled with packing peanuts. The box measures 17 feet by	- B	O R	X -	
1 feet by 2 feet. How many cubic feet of packing peanuts will fit?	V	W	-	4.5
6. A pizza box measures 14 - inches by 14 inches by 3.5 inches. What is the volume of the pizza box?	N	0	1 -	456