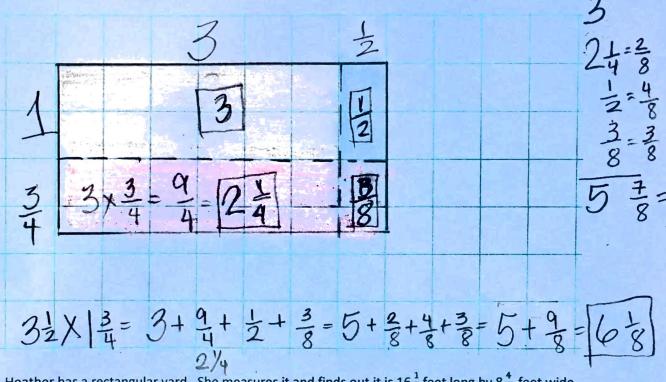


LSM/FRS

Use your ruler to draw a rectangle that measures  $3\frac{1}{2}$  by  $1\frac{3}{4}$  inches, and find its area.



- Heather has a rectangular yard. She measures it and finds out it is  $16\frac{1}{2}$  feet long by  $8\frac{4}{5}$  feet wide.
  - She wants to know how many square feet of sod she will need to completely cover the varc Draw the yard, and label the measurements.

 $(12\frac{4}{5})(4)(2\frac{4}{5})$   $(12\frac{4}{5})(4)(4)(4)(4)(4)$   $(12\frac{4}{5})(4)(4)(4)(4)$   $(12\frac{4}{5})(4)(4)(4)$   $(12\frac{4}{5})(4)(4)(4)$   $(12\frac{4}{5})(4)(4)(4)$  (1

How much sod will Heather need to cover the yard?

If each square foot of sod costs 65 cents, how much will she have to pay to cover her yard?

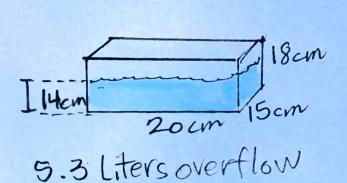
146 ft2

Module 5:

Addition and Multiplication with Volume and A

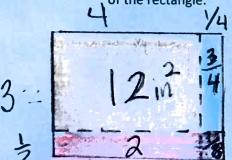


A rectangular container that has a length of 20 cm, a width of 15 cm, and a height of 18 cm is filled with water to a depth of 14 cm. When an additional 6.5 liters of water a poured into the container, some water overflows. How many liters of water overflow the container? Use words, pictures, and numbers to explain your answer. (Remember 1 cm<sup>3</sup> = 1 mL.)



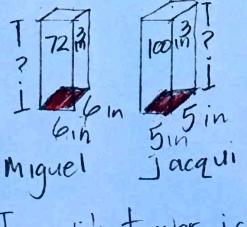
A) 
$$(20 \times 15) \times 18 = 5,400 \text{ cm}$$
  
 $300 \times 18 = 5,400 \text{ cm}$   
B)  $20 \times 15 \times 14 = 4,200 \text{ cm}$   
 $300 \times 14 = 4,200 \text{ cm}$   
 $5400 - 4200 = 1,200 \text{ cm}$   
 $6500 - 1200 = 5,300 \text{ cm}$ 

4. Jim says that a  $3\frac{1}{2}$  inch by  $4\frac{1}{4}$  inch rectangle has a section that is 3 inches × 4 inches and a section that is  $\frac{1}{2}$  inch  $\times \frac{1}{4}$  inch. That means the total area is just the sum of these two smaller areas, or  $12\frac{1}{8}$ in<sup>2</sup>. Why is Jim incorrect? Use an area model to explain your thinking. Then, give the correct area of the rectangle.



31×44= 12+3+4+1= 14+6+3= Jill is wrong because there 143 are not only two small areas. There are four. Jill is missing 2 and 2

tower had a 8-inch square base. If Miguel's tower had a volume of 72 cubic inches and Jacqui's had a volume of 100 cubic inches, whose tower was taller? Explain your reasoning.



Miguel 72:36= 2 in Jacqui 100:25 = 4 in 25/100 Idivided the Volum

acqui's tower is taller.

the Volume by the area of the

6.	Read the statements. Circle True or False. Explain your choice for each using words and/or		
	pictures.		
	a. All squares are quadrilaterals.	True	False
	A square is a quadrilateral		
	1 square stage 11 sides		
	because it has 4 sides.		
		True	False
	To locale at least	Title	Taise
	b. All squares are trapezoids.  Trapezoids have at least		
	one set of parallel lines Squares are trapezoids c. squares are rhombuses but not parallelograms.		
,	Squares are trapezolas		
	c. Squares are rhombuses but not parallelograms.	True	False
Sa	nares are rhombuses because		1, 1
the	y have 4 equal sides, and they	a to	of parallel
00	navallelograms because they have	25e1	lines
	have 4 equal sides, and they parallelograms because they have the opposite angles in a parallelogram have the same measure.	True	Faise
	The expectite angles of	naral	le lograms,
	The opposite and co	ano los	online the
	The opposite angles in a parallelogram have the same measure.  The opposite angles of have the same measure are two sets of equal sides of parallel lines	rie be	Lub cot
	are two sets of equal sides	and 7	wo se
	of Because the angles in a square are 90° each, it is not a parallelogran		
	2. Bacause the angles in a square are 90° each, it is not a parallelogram	n. True	False
T.	Asquate has 2 sets of parame		11. 14
	Inc Having anales of 90° each	toes no	st disqualif
	Asquate has 2 sets of parallelines. Having angles of 90° each of squares as	Davalle	Darams
	i. The sum of the angle measures of any moundus is greater than the s	ium of the ang	le measures
	of any trapezoid.	True	False
The	a sum of the four angles of	all	
114	e sum of the four angles of adrilaterals is the same: 3	100	
au	ladrilaterals is the same.	60	
L	g. The following figure is a parallelogram.	True	False
	7 116 176		
	115° / + (20)		
	115° 175 175 460° 175 350		
	119 330		
	TI C I I I I I I I I I I I I I I I I I I		
	This figure does not viave	To the second	
	two sate of parallel line	5	
	This figure does not have two sets of parallel line		