Activity 4.1

Warm Up

For use before Activity 4.1

Find the area of the rectangle with the given length ℓ and width w.

1. $\ell = 15$ m, $w = 10$ m
2. $\ell = 2$ ft, $w = 1.5$ ft
3. $\ell = 25$ in., $w = 25$ in.
4. $\ell = 12$ mm, $w = 8$ mm
5. $\ell = 18$ m, $w = 13$ m
6. $\ell = 29$ yd, $w = 17$ yd

Lesson 4.1 December 18, 2013

EssentialQuestion

How can you derive a formula for the area of parallelogram?

LessonTarget

To be able to:

- derive and use the formula to find areas of parallelograms.

Self-EvaluationRubric

Score	Description
4	I can teach other students how to derive and use the formula to find areas of parallelograms.
3	I can derive and use the formula to find areas of parallelograms.
2	I recognize how to derive and use the formula to find areas of parallelograms.
1	I do not know how derive and use the formula to find areas of parallelograms.

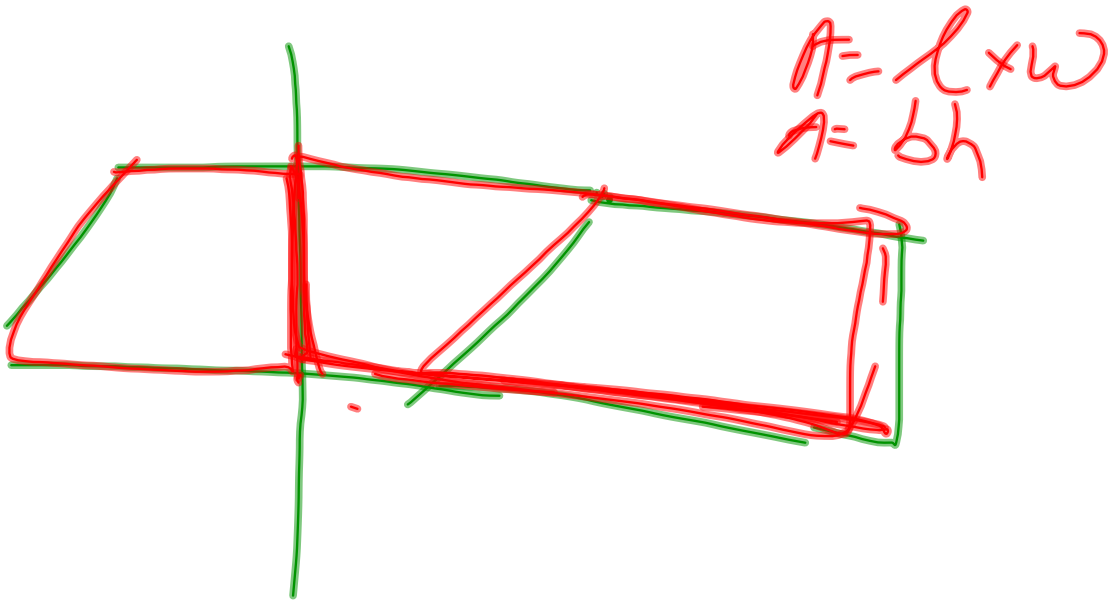
Lesson Target: To be able to derive and use the formula to find areas of parallelograms.

Activity1

With a partner(s) work on Acvity 1 on page 77 in the so cover Big Ideas and Pracce Journal.

Activity2

With a partner(s) work on Acvity 2 on page 78 & 79 in the so cover Big Ideas and Pracce Journal.


A = l x w
A = bh

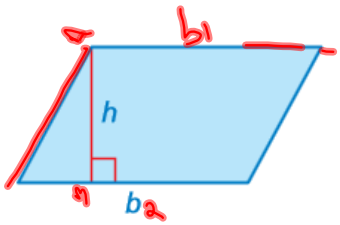
Lesson Target: To be able to derive and use the formula to find areas of parallelograms.

Key Idea

Area of a Parallelogram

Words The area A of a parallelogram is the product of its base b and its height h.

Algebra $A = bh$

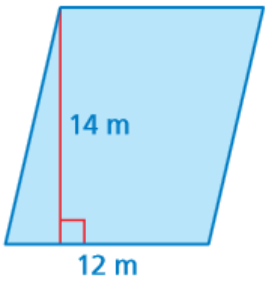


Lesson Target: To be able to derive and use the formula to find areas of parallelograms.

1 Finding Areas of Parallelograms

Find the area of each parallelogram.

a.



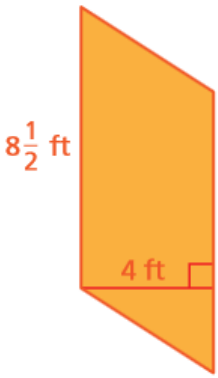
$A = bh$ Write formula.

$= 12(14)$ Substitute values.

$= 168$ Multiply.

∴ The area of the parallelogram is 168 square meters.

b.



$A = bh$

$= 8\frac{1}{2}(4)$

$= 34$

∴ The area of the parallelogram is 34 square feet.

FVSS

formula
Values
Simplify
Solution

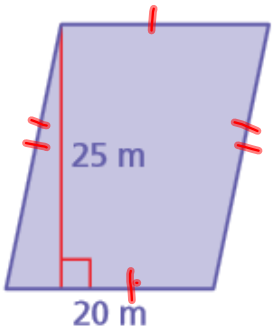
Lesson Target: To be able to derive and use the formula to find areas of parallelograms.

Tryit!

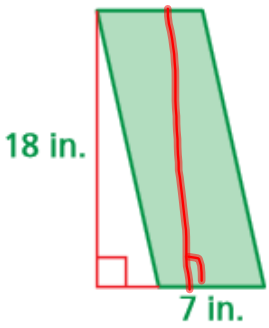
On Your Own

Find the area of the parallelogram.

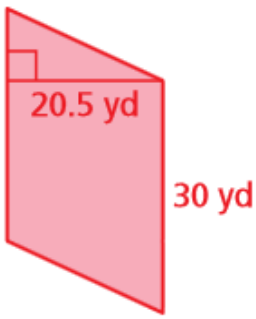
1.

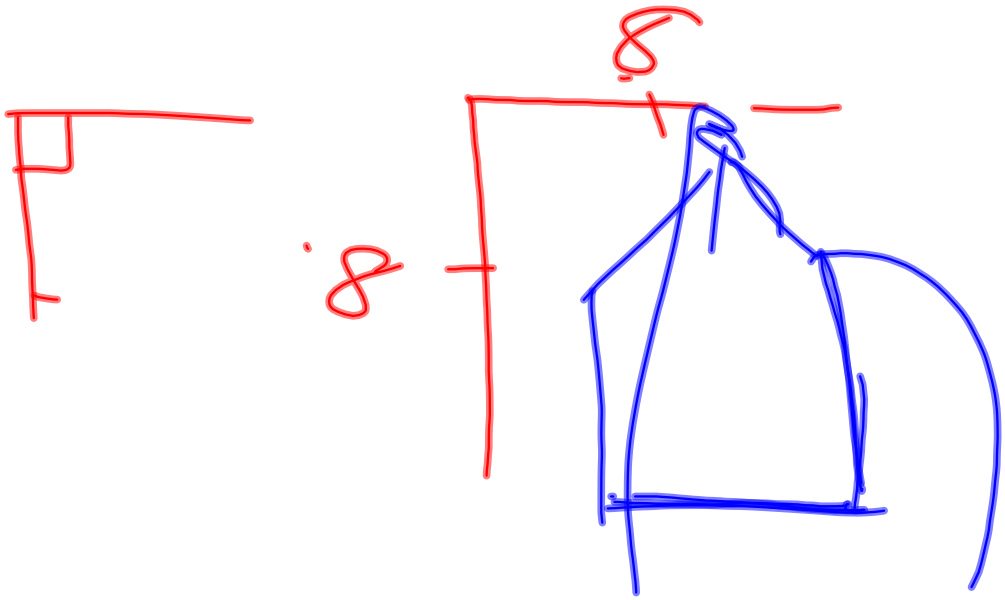


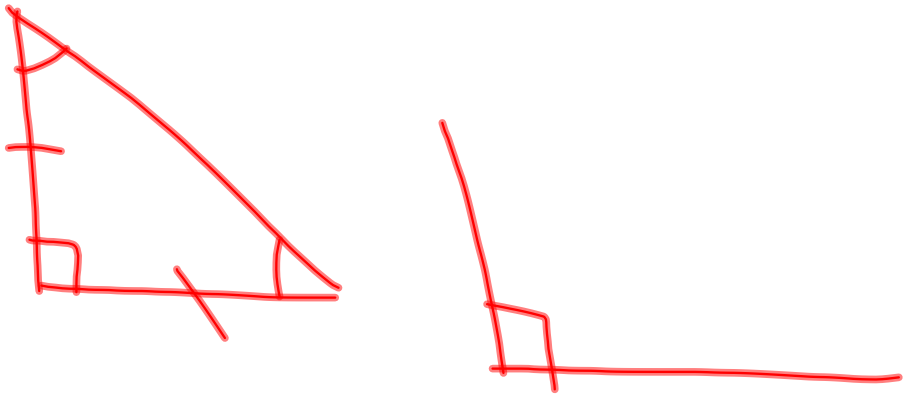
2.



3.







Lesson Target: To be able to derive and use the formula to find areas of parallelograms.

Assignment

Do numbers:

5, 6, 9, 13, 18, & 20

on pages 156 & 157 of your (hard cover) Big Ideas Text Book.

Lesson 4.1 December 18, 2013

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Homework

Big Ideas Record and
Pracce Journal
(so cover)
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