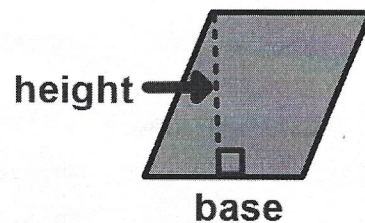| Chapter 4	Area of Polygons
Date	**Lesson 4.1 Area of Parallelograms**
Essential Question	How can you derive a formula for the area of a parallelogram?
Vocab	

Word	Definition
area	how much surface is covered
area of a parallelogram	$A = bh$ (Area = base x height) The height must make a right angle with the base.

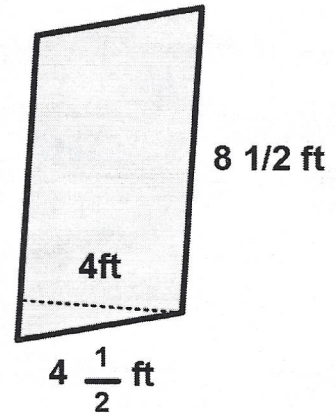# Composition Book

4.1 Area of Parallelograms

1)

14m

15m

12m

$A = bh$

$A = 12 \times 14$

$A = 168 \text{ m}^2$

2)

8 1/2 ft

4ft

$4 \frac{1}{2} \text{ ft}$
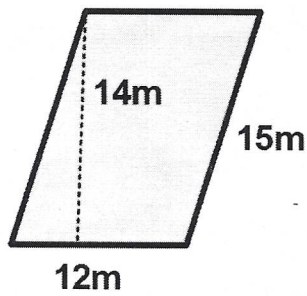
$A = bh$

$A = 8 \frac{1}{2} \times 4$

$A = 34 \text{ ft}^2$

Complete numbers 1 - 3 on your notes page.

1)

25 m

20 m

$A = bh$

$A = 20 \times 25$

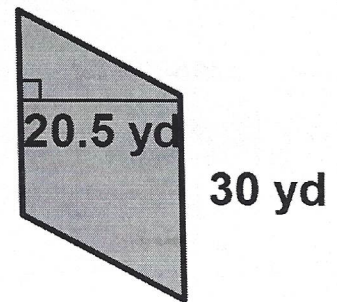$A = 500 \text{ m}^2$

2)

18 in.

12 in.
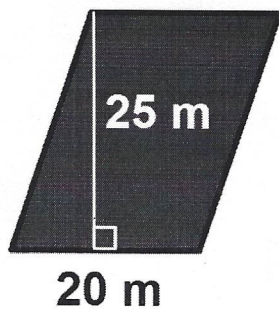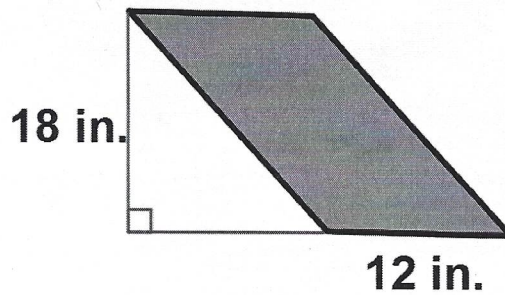
$A = bh$

$A = 12 \times 18$

$A = 216 \text{ in.}^2$
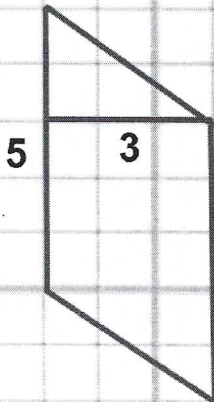
3)

20.5 yd

30 yd

$A = bh$

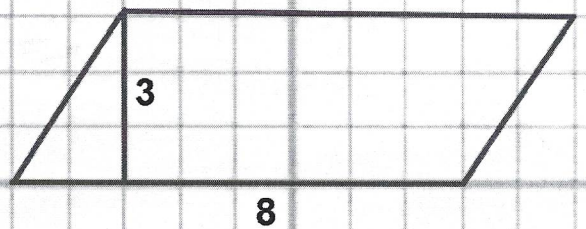$A = 30 \times 20.5$

$A = 615 \text{ yd}^2$

Complete numbers 3 and 4 in your composition book.
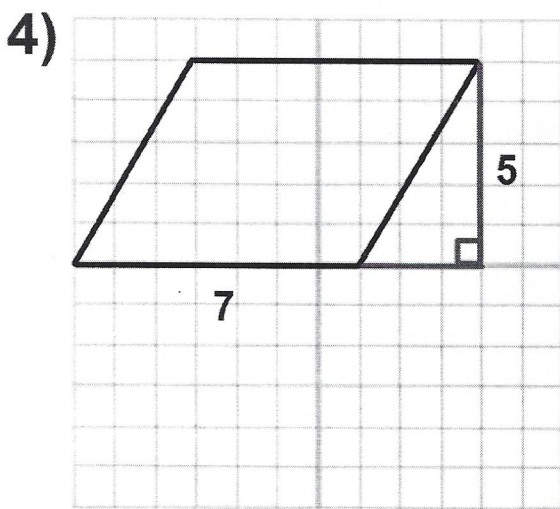
3)

$$5 \times 3 = 15 \text{ un}^2$$
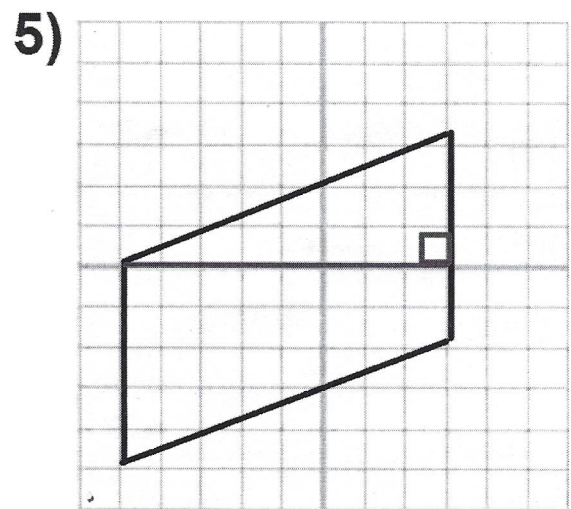
4)

$$3 \times 8 = 24 \text{ un}^2$$

Complete numbers 4 - 5 on your notes page.

4)
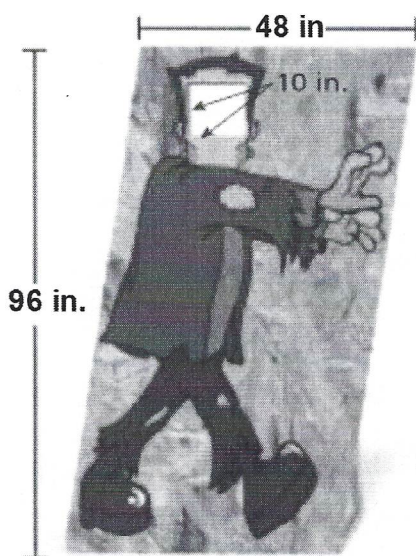

$$A = bh$$

$$A = 7 \times 5$$

$$A = 35 \ un^2$$

5)

$$A = bh$$

$$A = 5 \times 8$$

$$A = 40 \ un^2$$

Complete numbers 5 - 6 in your composition book.

5) You make a photo prop for a school fair. You cut a 10-inch square out of a parallelogram-shaped piece of wood. What is the area of the photo prop?

$$A = \text{Area of} \quad\diagdown\!\!\!\square\!\!\!\diagdown\quad - \quad \text{Area of} \quad \square$$

$$(48 \times 96) - (10 \times 10)$$

$$4608 - 100$$

$$4508 \text{ in}^2$$