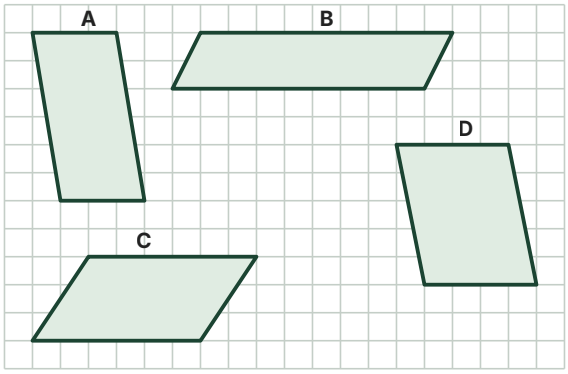
Bases & Heights of Parallelograms

Geometry & Shapes

Name: _____ Date: _____ Grade 6

1. Three of these parallelograms have the same area. Which parallelogram has a *different* area than the others?



A Parallelogram A

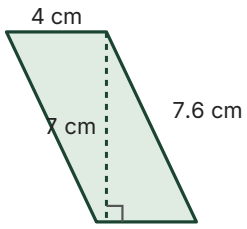
B Parallelogram B

C Parallelogram C

D Parallelogram D

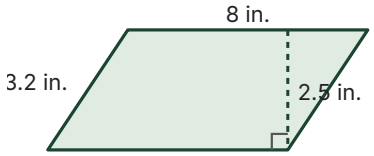
2. Determine the area of each parallelogram.

a



Area: _____

b



Area: _____

3. The base lengths, *b*, and corresponding heights, *h*, are listed for two different parallelograms. Determine the area of each parallelogram.

a $b = 14.5$ in., $h = 6$ in. _____

b $b = 9$ cm, $h = 4.5$ cm _____

4. Which base-height pair represents the parallelogram with the greatest area?

A $b = 9$ units, $h = 3.5$ units

B $b = 6.5$ units, $h = 5$ units

C $b = 12$ units, $h = 2.5$ units

D $b = 7$ units, $h = 4.5$ units

Bases & Heights of Parallelograms

continued

5. The base lengths, *b*, and areas, *A*, of four parallelograms are listed. Determine the height of each parallelogram.

a $b = 9$ units, $A = 63$ sq. units $h =$ _____

b $b = 8$ units, $A = 52$ sq. units $h =$ _____

c $b = 4.5$ units, $A = 27$ sq. units $h =$ _____

d $b = 7.5$ units, $A = 37.5$ sq. units $h =$ _____

6. The heights, *h*, and areas, *A*, of four parallelograms are listed. Determine the length of each base.

a $h = 6$ units, $A = 42$ sq. units $b =$ _____

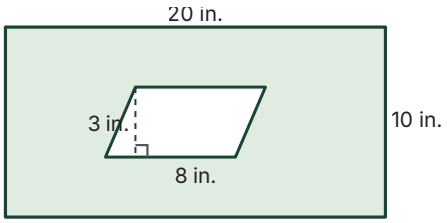
b $h = 5$ units, $A = 60$ sq. units $b =$ _____

c $h = 3.5$ units, $A = 14$ sq. units $b =$ _____

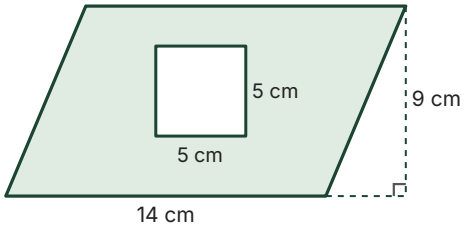
d $h = 12$ units, $A = 30$ sq. units $b =$ _____

7. Determine the area of the shaded region in each figure.

a



b



8. The parallelogram shown has an area of 120 square centimeters. Ana says the length of the base, *b*, is 8 centimeters. Is Ana correct? Explain your thinking.

