Name_____ Date_____ Period_____

LESSON 5-3 · SESSION 1 · PREREQUISITE PRACTICE B · SKILL 1 OF 2

Area of Triangles

Builds on Lesson 5-2 Session 1 · 6.G.A.1

TODAY'S LESSON	Each end piece of the trapezoid is a triangle. You find its area with 1/2 × b × h.
YOU NEED TO	Find a triangle's area, like 1/2 × 4 × 6 = 12. **You will use it in Practice Form A, problems 2 and 8.**

STEPS TO FOLLOW

use these same steps on every problem

1. Find the **base** and the height.
2. **Multiply** base × height.
3. **Halve** the product.

WATCH ME

the steps in action

A triangle has base 5 m and height 10 m. Find its area.

Step 1 b = 5, h = 10.

Step 2 5 × 10 = 50.

Step 3 50 ÷ 2 = 25.

Answer **25 m²**

TRY IT WITH HELP

fill in each step

1. A triangle has base 4 ft and height 6 ft. Find its area.

Step 1 b = _____, h = _____

Step 2 4 × 6 = _____

Step 3 24 ÷ 2 = _____ ft²

2. A triangle has base 6 in and height 16 in. Find its area.

Step 1 b = _____, h = _____

Step 2 6 × 16 = _____

Step 3 96 ÷ 2 = _____ in²

YOUR TURN

use the steps on your own

3. Find the area of each triangle.

a. b = 8, h = 5 _____

b. b = 3, h = 10 _____

c. b = 7, h = 4 _____

d. b = 9, h = 6 _____

e. b = 12, h = 5 _____

f. b = 10, h = 13 _____

Identify Base and Height

Builds on Lesson 5-1 Session 1 · 6.G.A.1

TODAY'S LESSON	Every piece you cut from a trapezoid deck uses the same height, like 6 ft.
YOU NEED TO	Pick the height: the distance that makes a square corner, never a slanted side. **You will use it in Practice Form A, problems 3 and 8.**

STEPS TO FOLLOW

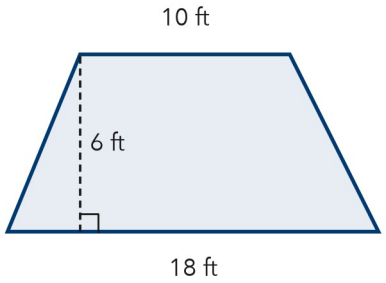
use these same steps on every problem

1. Pick a side as the **base**.
2. Find the segment that makes a **square corner** with it.
3. That segment is the **height**. Skip slanted sides.

WATCH ME

the steps in action

Bases 10 ft and 18 ft, slanted sides about 7 ft, dashed line 6 ft. Which is the height?



Step 1 The base is the 18 ft side.

Step 2 The 6 ft line makes a square corner.

Step 3 The height is 6 ft, not the 7 ft slanted side.

Answer **h = 6 ft**

TRY IT WITH HELP

fill in each step

4. A triangle has base 12 cm, slanted side 10 cm, dashed line 8 cm. Find the height.

Step 1 The base is _____ cm.

Step 2 The _____ cm line makes a square corner.

Step 3 The height is _____ cm.

5. Bases 9 in and 15 in, slanted sides 5 in, dashed line 4 in. Find the height.

Step 1 The long base is _____ in.

Step 2 The _____ in line makes a square corner.

Step 3 The height is _____ in.

YOUR TURN

use the steps on your own

6. Write the height. "Corner" is the line that makes a square corner.

a. base 10, slanted 6, corner 5 _____

b. base 14, corner 9, slanted 11 _____

c. slanted 13, base 20, corner 12 _____

d. base 8, corner 3, slanted 5 _____

READY CHECK

a problem like the one in today's lesson

7. Bases 8 m and 18 m, slanted sides 13 m, height 12 m. Which number is h?

A 8 m **B** 12 m **C** 13 m **D** 18 m

CHECK YOURSELF ☐ I can do this on my own ☐ I need a little help ☐ I have a question about #____