Name_____ Date_____ Period_____

LESSON 5-4 · 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	You will find one center triangle, like ½ × 16 × 11 for the pentagon sign.
YOU NEED TO	Find a triangle's area with A = ½ × b × h, like ½ × 14 × 9. **You will use it in Practice Form A, problems 1, 3, and 5.**

STEPS TO FOLLOW

use these same steps on every problem

1. **Write** A = ½ × b × h with the numbers.
2. **Halve** the even number first.
3. **Multiply** what is left. Write square units.

WATCH ME

the steps in action

A triangle has a base of 14 cm and a height of 9 cm. Find its area.

Step 1 A = ½ × 14 × 9.

Step 2 Half of 14 is 7.

Step 3 7 × 9 = 63, so 63 cm².

Answer **63 cm²**

TRY IT WITH HELP

fill in each step

1. Base 10 cm, height 7 cm. Find the area.

Step 1 A = ½ × _____ × _____

Step 2 Half of 10 is _____

Step 3 5 × 7 = _____ cm²

2. Base 8 m, height 6.9 m. Find the area.

Step 1 A = ½ × _____ × _____

Step 2 Half of 8 is _____

Step 3 4 × 6.9 = _____ m²

YOUR TURN

use the steps on your own

3. Find each area. Use A = ½ × b × h.

a. ½ × 6 × 5 = _____

b. ½ × 12 × 6 = _____

c. ½ × 20 × 9 = _____

d. ½ × 8 × 11 = _____

e. ½ × 4 × 3.5 = _____

f. ½ × 10 × 6.9 = _____

Multiply Area by Equal Parts

Builds on Grade 4 · 4.NBT.B.5

TODAY'S LESSON	You will find 6 × 45 cm² for Jamal's hexagon tile.
YOU NEED TO	Multiply one part's area by the number of equal parts, like 8 × 45. **You will use it in Practice Form A, problems 2, 7, and 8.**

STEPS TO FOLLOW

use these same steps on every problem

1. **Find** the area of one part.
2. **Count** the equal parts.
3. **Multiply**: one part × number of parts.

WATCH ME

the steps in action

A quilt is made of 8 equal triangles. Each is 45 in². Find the quilt's area.

Step 1 One part: 45 in².
Step 2 Number of parts: 8.
Step 3 8 × 45 = 360.
Answer **360 in²**

TRY IT WITH HELP

fill in each step

4. A hexagon is made of 6 equal triangles. Each is 15 cm². Find the total area.

Step 1 One part: _____ cm²
Step 2 Number of parts: _____
Step 3 6 × 15 = _____ cm²

5. A pentagon is made of 5 equal triangles. Each is 24 m². Find the total area.

Step 1 One part: _____ m²
Step 2 Number of parts: _____
Step 3 5 × 24 = _____ m²

YOUR TURN

use the steps on your own

6. Find the total area.

a. 6 parts of 12 cm² _____
b. 5 parts of 18 m² _____
c. 8 parts of 15 in² _____
d. 6 parts of 35 ft² _____
e. 10 parts of 16 cm² _____
f. 8 parts of 25 m² _____

READY CHECK

a problem like the one in today's lesson

7. A hexagon has 6 center triangles of 40 cm² each. What is its area?

A 40 cm² **B** 46 cm² **C** 240 cm² **D** 480 cm²

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