Name_____ Date_____ Period_____

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

Find the Base Area

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

TODAY'S LESSON	You will find the base of a box first, like 16 in × 11 in for the fish tank.
YOU NEED TO	Find the area of the bottom face: length × width. **You will use it in Practice Form A, problems 3 and 4.**

STEPS TO FOLLOW

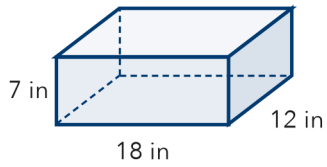
use these same steps on every problem

1. **Find** the bottom face: the length and the width.
2. **Leave out** the height. It is not part of the base.
3. **Multiply** length × width. Write square units.

WATCH ME

the steps in action

A box is 18 in long, 12 in wide, and 7 in tall.
Find the base area.



Step 1 Bottom: 18 in by 12 in.
Step 2 Leave out the 7 in height.
Step 3 18 × 12 = 216, so 216 in².
Answer **216 in²**

TRY IT WITH HELP

fill in each step

1. A box is 14 cm long, 9 cm wide, and 5 cm tall. Find the base area.

Step 1 Bottom: _____ cm by _____ cm
Step 2 Leave out the height: _____ cm
Step 3 14 × 9 = _____ cm²

2. A box is 20 in long, 13 in wide, and 6 in tall. Find the base area.

Step 1 Bottom: _____ in by _____ in
Step 2 Leave out the height: _____ in
Step 3 20 × 13 = _____ in²

YOUR TURN

use the steps on your own

3. Find each base area. Each box is length × width × height.

a. 15 ft × 12 ft × 4 ft _____
b. 17 m × 6 m × 9 m _____
c. 25 cm × 11 cm × 3 cm _____
d. 19 in × 10 in × 7 in _____

Count Cubes in Layers

Builds on Grade 5 · 5.MD.C.5a

TODAY'S LESSON	You will count cubes in a toy chest: one layer × layers.
YOU NEED TO	Find the cubes in one layer, then multiply by the layers. **You will use it in Practice Form A, problems 2 and 3.**

STEPS TO FOLLOW

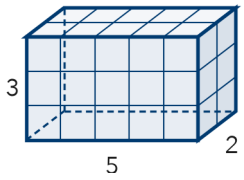
use these same steps on every problem

1. **Count** the cubes in one layer: length × width.
2. **Count** the layers. That is the height.
3. **Multiply**: cubes in one layer × number of layers.

WATCH ME

the steps in action

A box is 5 cubes long, 2 cubes wide, and 3 cubes tall. How many cubes fill it?



Step 1 One layer: 5 × 2 = 10 cubes.

Step 2 There are 3 layers.

Step 3 10 × 3 = 30.

Answer **30 cubes**

TRY IT WITH HELP

fill in each step

4. A box is 4 cubes long, 2 cubes wide, and 3 cubes tall. How many cubes fill it?

Step 1 One layer: 4 × 2 = _____ cubes

Step 2 Number of layers: _____

Step 3 8 × 3 = _____ cubes

5. A box is 6 cubes long, 3 cubes wide, and 2 cubes tall. How many cubes fill it?

Step 1 One layer: 6 × 3 = _____ cubes

Step 2 Number of layers: _____

Step 3 18 × 2 = _____ cubes

YOUR TURN

use the steps on your own

6. Find the number of cubes.

a. 3 long, 2 wide, 4 tall _____

b. 5 long, 4 wide, 2 tall _____

c. 6 long, 5 wide, 3 tall _____

d. 7 long, 2 wide, 5 tall _____

READY CHECK

a problem like the one in today's lesson

7. A box is 6 cubes long, 3 wide, and 4 tall. How many cubes fill it?

A 13 **B** 18 **C** 72 **D** 36

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