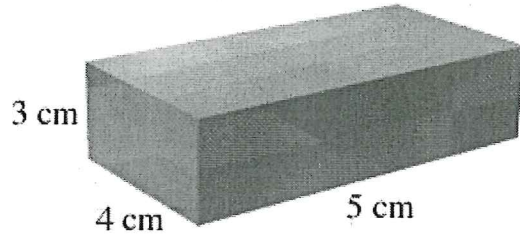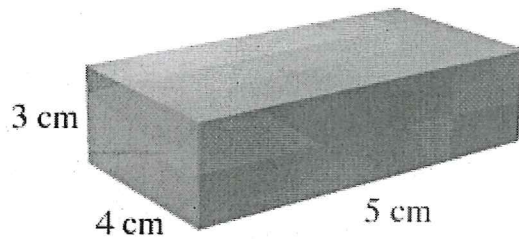1. Let's practice finding the volume of rectangular prisms.
    The formula you use to find the volume of a rectangular prism is:

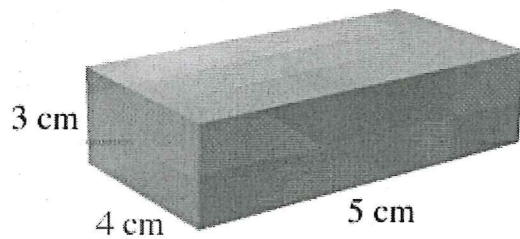   **Volume = length x width x height**

2. Volume = **length** x width x height
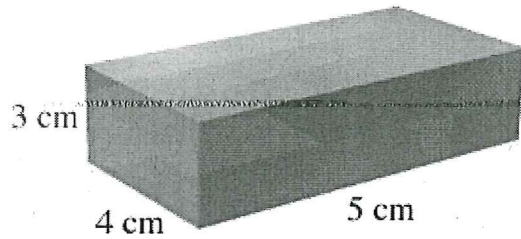

    For the rectangular prism above, **5 cm** is the number you use for the length.

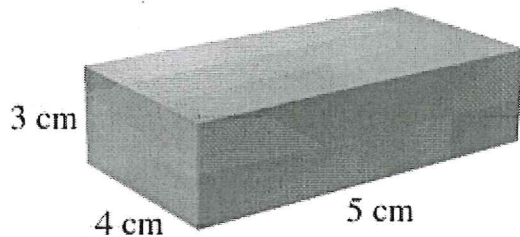3. Volume = length x **width** x height

    4 cm is the number you use for the width.

4. Volume = length x width x **height**

3 cm is the number you use for the height.
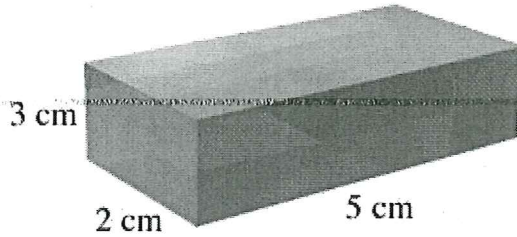

5. Volume = 5 cm x 4 cm x 3 cm

You multiply 5 cm x 4 cm x 3 cm. That equals 60. Since you multiplied the cm three times, you write the answer as:

Volume = 60 cm^3
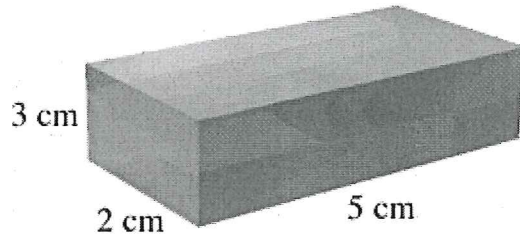
Now, try to work through the next problems step by step.

1. Let's practice finding the volume of this rectangular prism.

   What formula do you use?
   - ○ **A**   volume = length x width x height
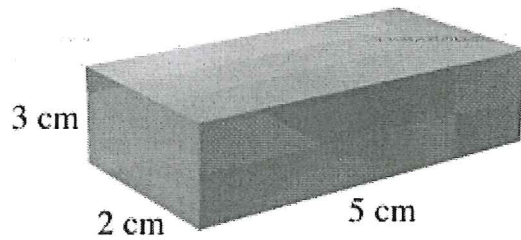   - ○ **B**   volume = length x width

2. Volume = length x width x height

   Which number do you use for the length?
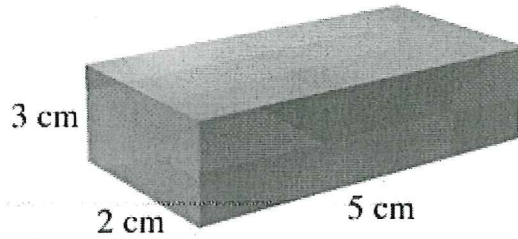   - ○ **A**   2 cm
   - ○ **B**   5 cm

3. Volume = length x width x height

   Which number do you use for width?
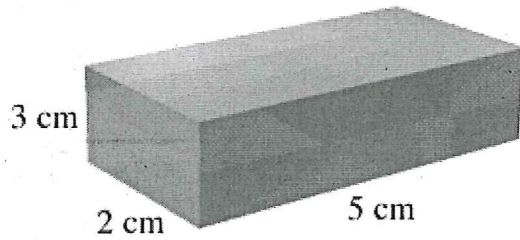   - ○ **A**   2 cm
   - ○ **B**   3 cm

4. Volume = length x width x height

3 cm

2 cm   5 cm

Which number do you use for height?

○ **A**   5 cm

○ **B**   3 cm

5. Now that you have the numbers plugged into the formula, you are ready to do the math.
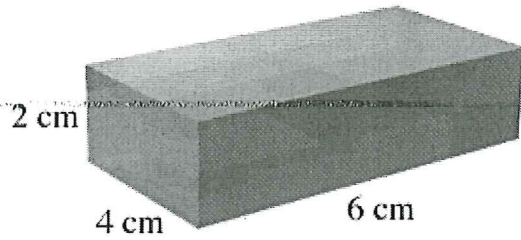
Volume = 5 cm x 2 cm x 3 cm

3 cm

2 cm   5 cm

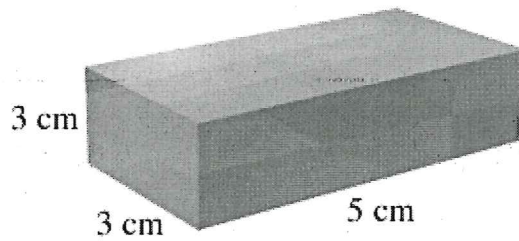What is the volume of the rectangular prism?

○ **A**   30 cm^3

○ **B**   10 cm^3

Now, work these practice problems on your own.
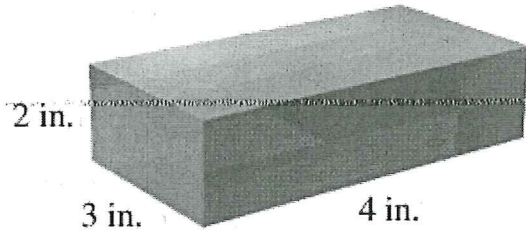
1. What is the volume of the rectangular prism?

2 cm

4 cm   6 cm

- A   50 cm^3
- B   48 cm^3
- C   24 cm^3
- D   12 cm^3

2. What is the volume of the rectangular prism?

3 cm

3 cm   5 cm

- A   11 cm^3
- B   15 cm^3
- C   45 cm^3
- D   30 cm^3

3. What is the volume of this rectangular prism?

2 in.

3 in.   4 in.

    ○ A   9 in.^{3}
    ○ B   20 in.^{3}
    ○ C   24 in.^{3}
    ○ D   12 in.^{3}

4. What is the volume of the rectangular prism?

2 cm

3 cm   7 cm
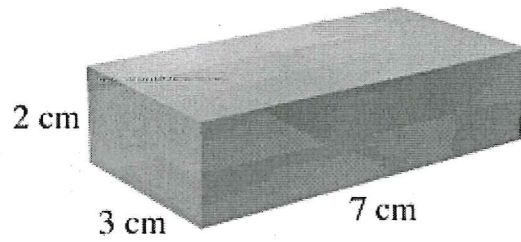
    ○ A   21 cm^3
    ○ B   12 cm^3
    ○ C   42 cm^3
    ○ D   30 cm^3

5. What is the volume of the rectangular prism?

3 cm

3 cm   6 cm
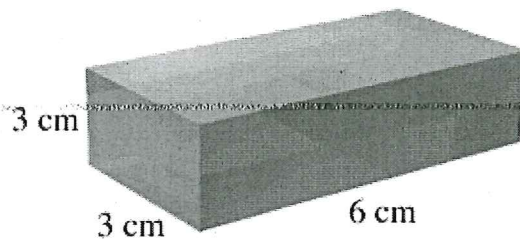
- A 45 cm^3
- B 12 cm^3
- C 54 cm^3
- D 18 cm^3

6. What is the volume of the rectangular prism?

2 ft

4 ft   5 ft
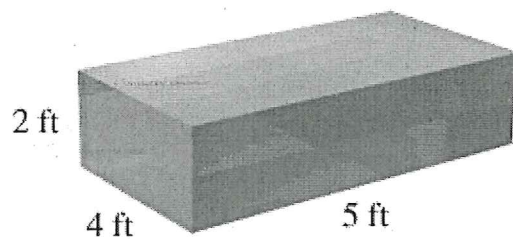
- A 20 ft^3
- B 30 ft^3
- C 40 ft^3
- D 11 ft^3

7. What is the volume of the rectangular prism?

2 cm

3 cm   4 cm
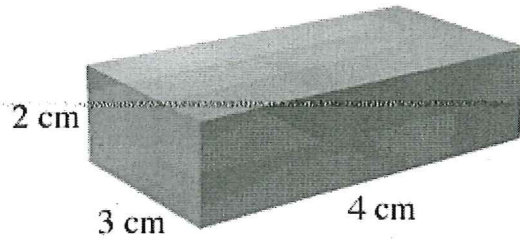
   A   9 cm^3

   B   24 cm^3

   C   18 cm^3

   D   12 cm^3

8. What is the volume of the rectangular prism?

2 cm

5 cm   7 cm
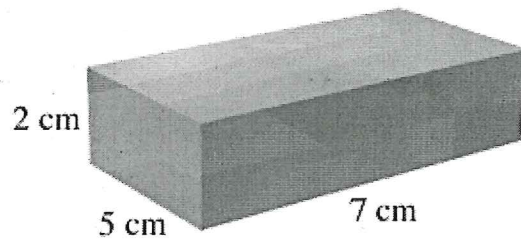
   A   10 cm^3

   B   70 cm^3

   C   14 cm^3

   D   35 cm^3

9. What is the volume of the rectangular prism?

2 in.
3 in.   6 in.
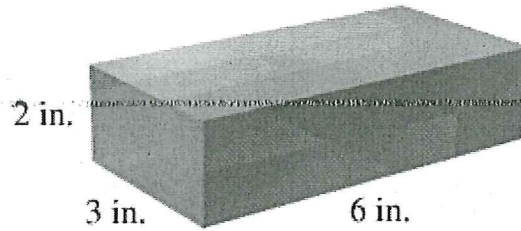
- A   27 in.^{3}
- B   36 in.^{3}
- C   11 in.^{3}
- D   18 in.^{3}

10. What is the volume of the rectangular prism?

3 cm
3 cm   5 cm

- A   15 cm^3
- B   45 cm^3
- C   30 cm^3
- D   11 cm^3

11. What is the volume of the rectangular prism?

3 cm

2 cm   4 cm
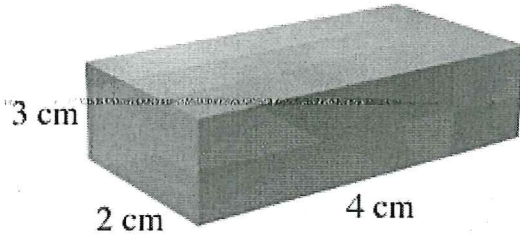
- A   16 cm³
- B   24 cm³
- C   8 cm³
- D   9 cm³
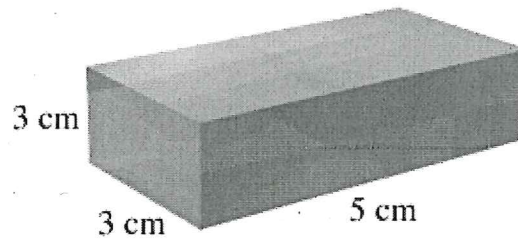
12. What is the volume of the rectangular prism?

3 ft

4 ft   8 ft
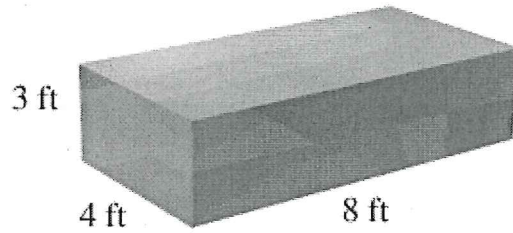
- A   15 ft³
- B   32 ft³
- C   96 ft³
- D   55 ft³