

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Period # \_\_\_\_\_

Write your cheat sheet:

K h d m d c m  
m m a m m m m

Convert the following numbers:

1)  $9.2 \text{ m} = \underline{9,200} \text{ mm}$

2)  $2.4 \text{ cm} = \underline{.24} \text{ dm}$

3)  $1.7 \text{ hm} = \underline{17,000} \text{ cm}$

4)  $7 \text{ mm} = \underline{.007} \text{ m}$

5)  $148 \text{ m} = \underline{.148} \text{ km}$

6)  $96,000 \text{ mm} = \underline{9.6} \text{ dam}$

7)  $.00457 \text{ km} = \underline{.0457} \text{ hm}$

8)  $.97 \text{ dm} = \underline{9.7} \text{ cm}$

9)  $1,560,954 \text{ m} = \underline{15609.54} \text{ hm}$

10)  $.000376 \text{ dam} = \underline{.376} \text{ cm}$

11)  $.4320 \text{ cm} = \underline{4.32} \text{ mm}$

12)  $2390.76 \text{ km} = \underline{2,390,760} \text{ m}$

Draw the following lines:

1. Draw a line that is 10 cm long.



2. Draw a line that is 100 mm long.



3. Draw a line that is .06 m long.



4. Draw a line that is .000013 km long.



5. Draw a line that is .129 dm long.



Measure the following line. Convert if needed.

1) \_\_\_\_\_ 10 cm

2) \_\_\_\_\_ 6.6 cm

3) \_\_\_\_\_ 23.5 mm

4) \_\_\_\_\_ 5.2 cm then convert to 52 mm

5) \_\_\_\_\_ 6 mm then convert to .000006 km

6) \_\_\_\_\_ 8.1 cm convert to  
.081 m.

7) \_\_\_\_\_ .0645 m

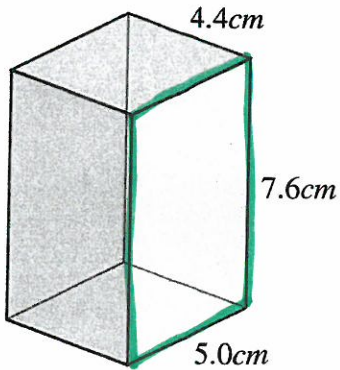
8) \_\_\_\_\_ .039 m

9) \_\_\_\_\_ 14cm  
Measure this line in km. .00014 km

## Volume and surface area of prisms (B)

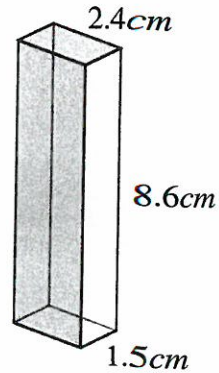
Find the volume and surface area of each prism.  
*you can use a calculator*

$$\text{Area} = L \times W$$
$$V = L \times W \times H$$



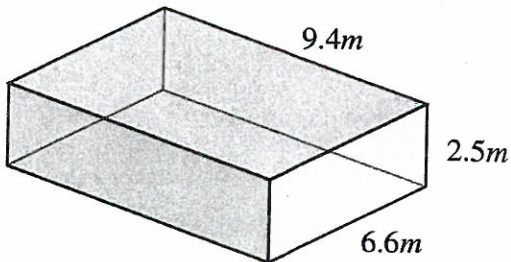
V:  $4.4 \times 7.6 \times 5.0 = 167.2 \text{ cm}^3$

A:  $7.6 \times 5.0 = 38 \text{ cm}^2$



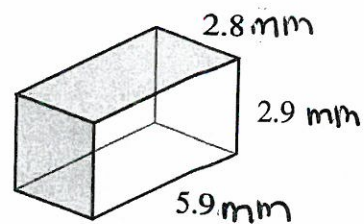
V:  $2.4 \times 8.6 \times 1.5 = 30.96 \text{ cm}^3$

A:  $8.6 \times 1.5 = 12.9 \text{ cm}^2$



V:  $9.4 \times 2.5 \times 6.6 = 155.1 \text{ m}^3$

A:  $6.6 \times 2.5 = 16.5 \text{ m}^2$



V:  $2.8 \times 5.9 \times 2.9 = 47.908 \text{ mm}^3$

A:  $2.9 \times 5.9 = 17.11 \text{ mm}^2$

Area = 1/2 \* base \* height  
V = 1/3 \* A \* h



Area = 1/2 \* (b1 + b2) \* h  
V = 1/3 \* A \* h

Area = 1/2 \* (b1 + b2) \* h  
V = 1/3 \* A \* h

Area = 1/2 \* (b1 + b2) \* h  
V = 1/3 \* A \* h

Area = 1/2 \* (b1 + b2) \* h  
V = 1/3 \* A \* h