What's Going On?

Checking In

Minds on   Unit Conversions in One Dimension

Action!   Perimeter, Area and Volume

Consolidation   Net Area

Learning Goal - I will be able to calculate the perimeter and area of composite figures and convert units between different systems of measurement.
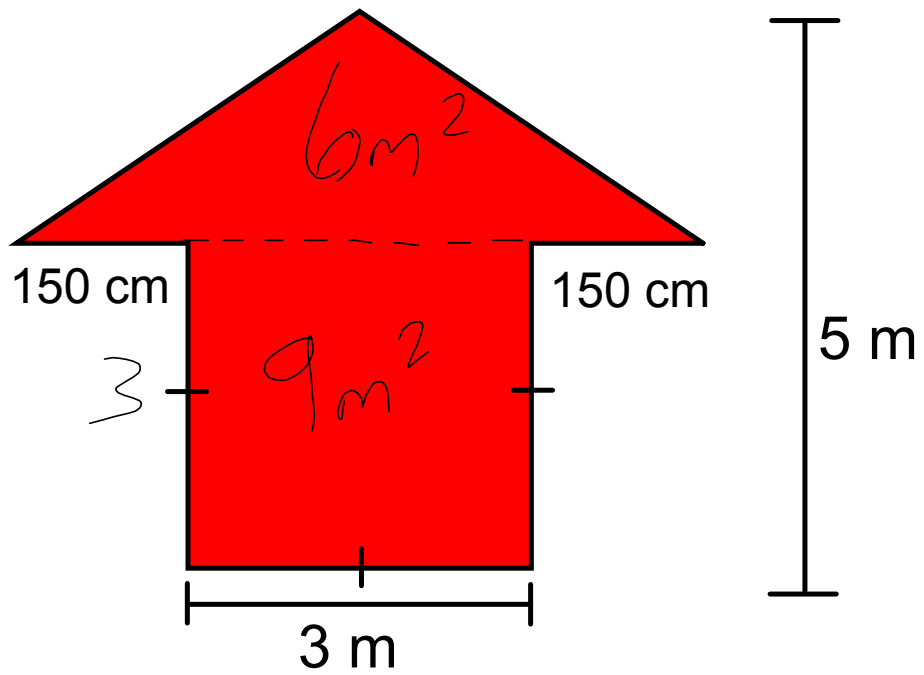
Checking In

Odds and Ends

The Quiz   - Brad

   - Joe T

The Survey   - Steven and Heather

   - Joe T

   - Sevren

   - Jessica

   - Shelby and Cassidy **

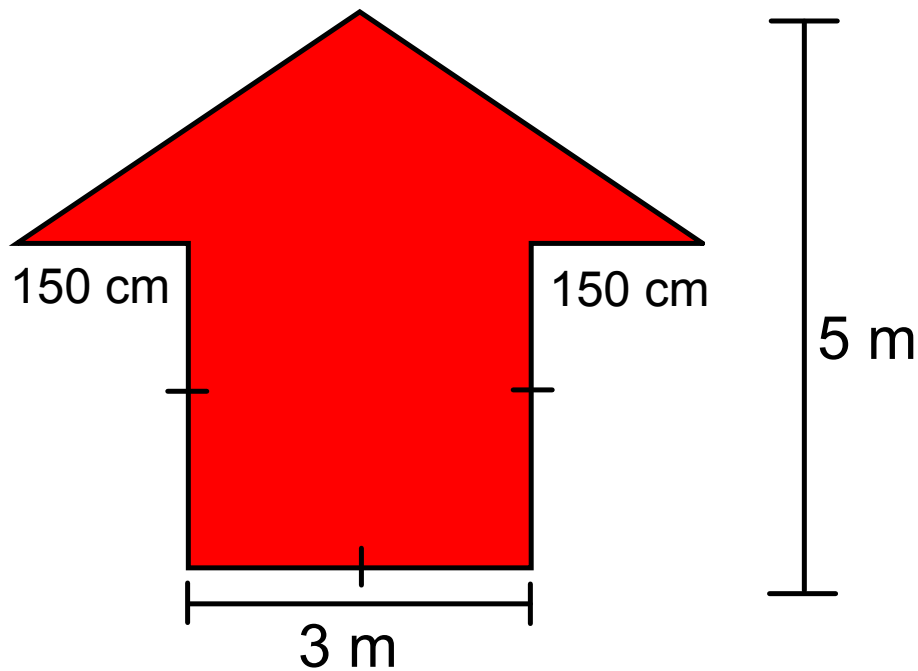   - Brad and Andrew

   - Mark

Homework Logs

Minds on

What's my Area?

$6 m^2$

150 cm   150 cm

3

$9 m^2$

$5 m$

3 m

$= 15 m^2$

What's my Area?

Where could people "mess up"?

Forget to divide area of triangle by 2!

Mess up conversion from cm to m

Forgot that the ticks meant same

Not being able to get height of triangle

Minds on

Unit Conversions in One Dimension

Use the iPads / your phones to fill in the unit conversions.

Mar 9-10:13 AM

Action!

Lengths, Areas and Volumes

Fill in the "estimates" column on the front and back of your handout.

No peeking!

Action!

Lengths, Areas and Volumes

GSP Demo

Mar 9-10:13 AM

Action!

Lengths, Areas and Volumes

1 cm = 10 mm

1 cm^2 = _100_ mm^2

To convert areas

square

the measurements!

x by itself
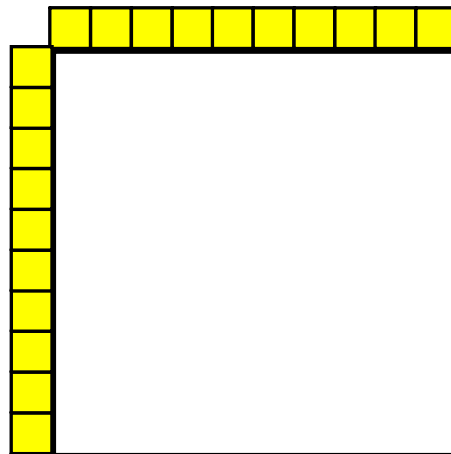
Action!

Lengths, Areas and Volumes

1 cm = 10 mm

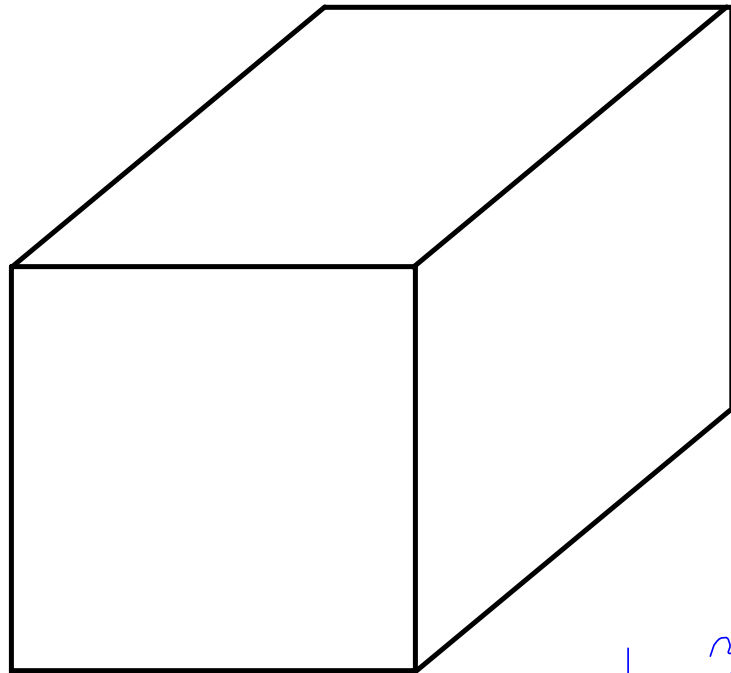$1 \text{ cm}^3 = \underline{1000} \text{ mm}^3$

To convert volumes

__c__ __u__ __b__ __e__

the measurements!
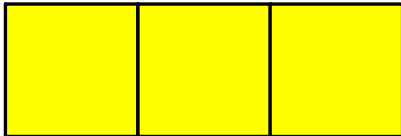
$10 \times 10 \times 10$

or

10^3

10^3

$1{,}000{,}000 \text{ cm}^3 = 1\text{m}^3$

Action!

Lengths, Areas and Volumes

1 yd = 3 ft

1 yd² = _____ ft²

1 | 2 | 3
4 | 5 | 6
7 | 8 | 9
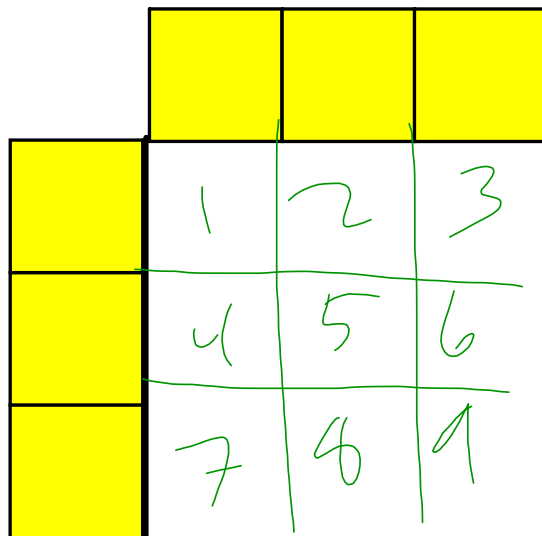
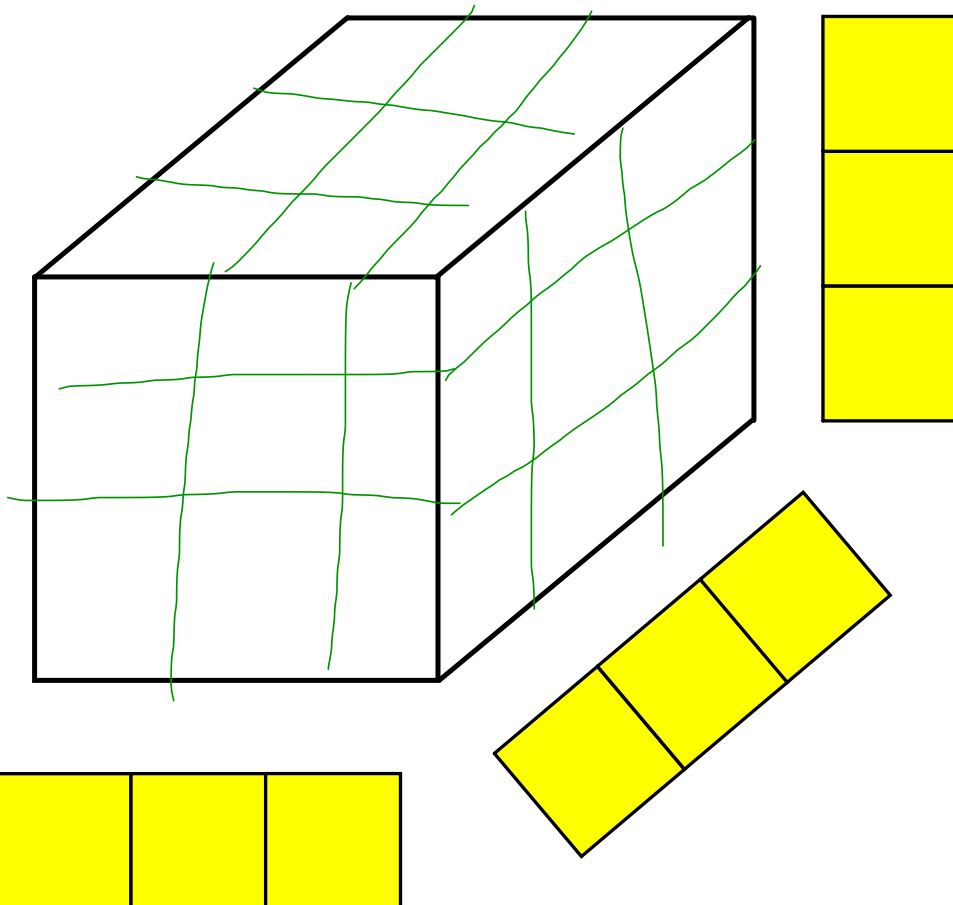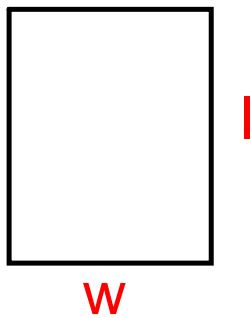# Action!

Lengths, Areas and Volumes

1 yd = 3 ft
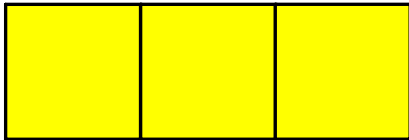
$$1 \text{ yd}^3 = \underline{27} \text{ ft}^3$$
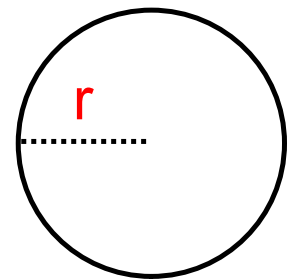
Consolidation

Perimeter and Area of Basic Shapes

l

w

a   h   c

b

r

$P = l + w$

$A =$

$P =$

$A =$

$P =$

$A =$

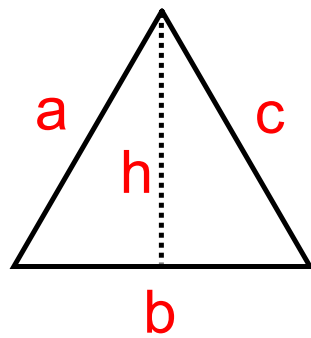Mar 18-3:27 PM

$$l$$

$$w$$
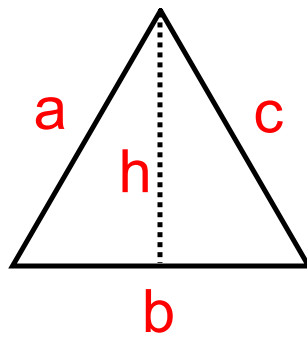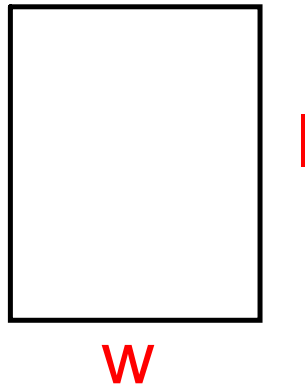
$$P = l + w + l + w \qquad A = l \times w$$

$$P = (l + w) \times 2$$

$$P = 2(l + w) \qquad m \times m = m^2$$

$$P = 2l + 2w$$

$$P = a + b + c$$

$$A = \frac{b \times h}{2} \text{ or } \frac{1}{2}(b \times h)$$

$2r$

$2r$

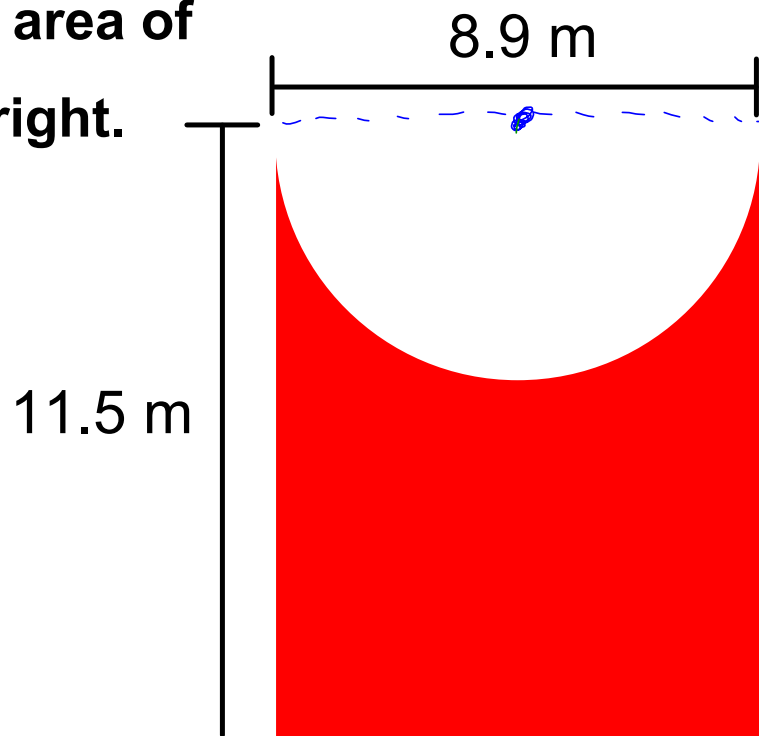$2r \cdot 2r$
$= 4r^2$
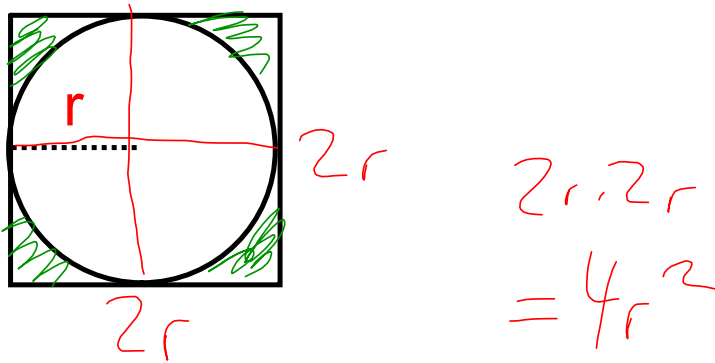
Circumference $= 2\pi r$
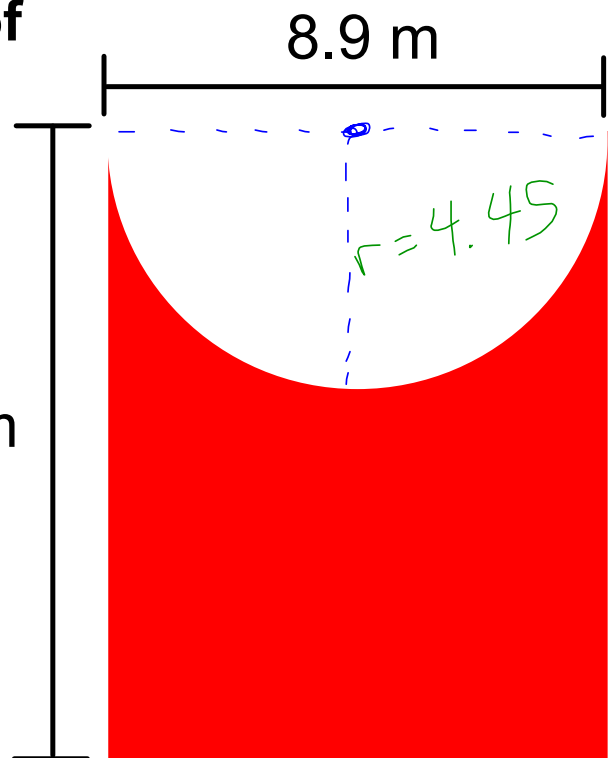
or πd

Area $= \pi r^2$

Consolidation

Net Area

The "net area" of an object is the area found by subtracting one or more areas from a total area. (think "net income")

Determine the net area of

the object on the right.

8.9 m

11.5 m

Determine the net area of the object on the right.

8.9 m

$r = 4.45$

11.5 m

Net Area is area of rectangle minus area of semi-circle.

$$\text{Net Area} = (11.5 \times 8.9) - \frac{\pi (4.45)^2}{2}$$

$$= 102.35 - 31.1$$

$$= 71.25 \, m^2$$

Apr 16-7:35 PM

Consolidation

Homework

Pg. 11 - 13

4 - 9