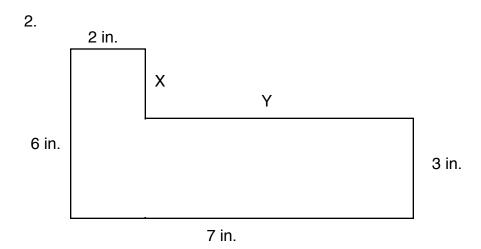
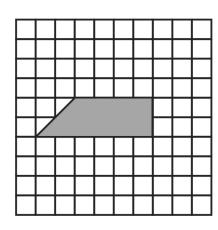
Math at Work 10 Chapter 3 Area Review

Question Set #1 (Get Ready)

- 1. Round each length to the indicated unit.
- a) 28.35 m to the nearest 0.1 m
- b) 24 3/4 in. to the nearest inch
- c) 2 m 55 cm to the nearest metre
- d) 6.7 km to the nearest km



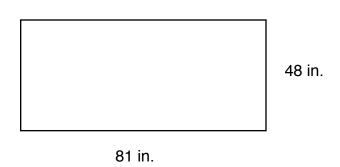
- a) Find the missing dimensions.
- b) Find the perimeter.
- c) Find the area.
- 3. Use the diagram on the right to answer the following questions. Each square represents 1 cm²
- a) How many squares are filled in?
- b) What is the area in square cm?
- c) What is the area in square m?



Question Set #1 Answers.						
Tea	Team:					
1)						
a)	28.4 m					
b)	25 in.					
c)	3 m					
	7 km					
- /						
2)						
a) (X: 3 in. Y: 5 in.					
b)	26 in.					
c)	27 square inches					
3)						
a)	10					
b)	10 square cm					
c)	0.0010 square m					

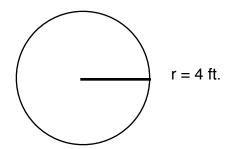
Question Set #2 (Imperial Area Measurements - 3.1)

1.



- a) Calculate the area of the rectangle in square inches.
- b) Convert the area to square feet.
- c) Convert the area to square yards.

2.



- a) Calculate the area of the circle in square feet.
- b) Convert the area to square inches.
- c) Convert the area to square yards.
- 3. Complete each of the following conversions.

a)
$$2ft^2 = \underline{\hspace{1cm}} in^2$$

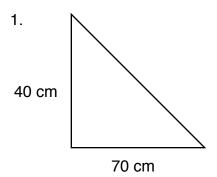
b)
$$9 ft^2 = __y d^2$$

c)
$$\frac{1}{2}ft^2 = _in^2$$

d)
$$1296in^2 = ___yd^2$$

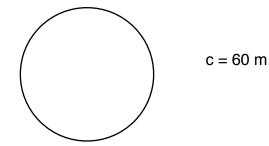
	Qu	estion Set #2 Answers.
Team:		
	1)	
	a)	3888 square inches
	b)	27 square feet
	c)	3 square yards
	2)	
	a)	50.3 square feet
	b)	7238.2 square inches
	c)	5.6 square yards
	3)	
	a)	288 square inches
	b)	1 square yard
	c)	72 square inches
	d)	1 square yard

Question Set #3 (SI Area Measurements - 3.2)



- a) Calculate the area of the triangle in square cm.
- b) Convert the area to square m.
- c) Convert the area to square km.

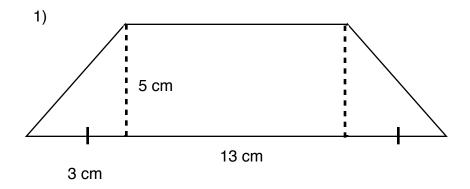
2.



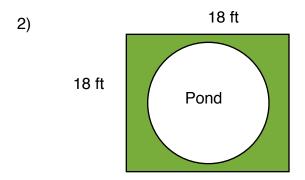
- a) Calculate the diameter of the circle.
- b) Calculate the area in square metres.
- c) Calculate the area in square centimetres.
- 3. What SI unit would be best to express the area of each item?
- a) a parking space
- b) the palm of your hand
- c) the province of Nova Scotia
- d) your fingernail

Question Set #3 Answers.
Team:
1)
a) 1400 square cm
b) 0.14 square m
c) 0.00000014 square km
2)
a) 19.1 m
b) 286.5 square m
c) 2865000 square cm
3)
a) square m
b) square cm
c) square km
d) square mm

Question Set #4 (Working with Area - 3.3)



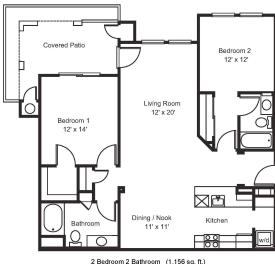
a) Calculate the total area.



- a) If the diameter of a small pond is 10 ft. Calculate the area of the pond in square feet.
- b) Calculate the area of the grass around the pond.

3)

- a) Calculate the total area of the two bedrooms.
- b) You are in the process of painting Bedroom #2. You have already painted the wall that includes the doorway. This leaves the remaining 3 walls. One wall has 2 (2 ft. by 2ft. windows) The height of the room is 8 ft. How much area do you have left to paint?



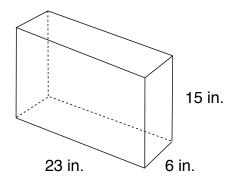


Question Set #4 Answers.					
Team:					
1)					
a)	80 square cm				
2)					
a)	78.5 square feet				
b)	245.5 square feet				
3)					
a)	312 square feet				
b)	280 square feet				

Question Set #5 (Surface Area of 3D Objects - 3.4)

1. Calculate the total surface area of the following 3D objects.

a)



b)





c)



h = 18 cm

$$r = 4 cm$$

2. Mr. Barnes's favorite ice cream is Coffee.

d = 5 cm

a) Calculate the surface area of the following cone. (remember ice cream cones do not have a top)

b) If cones cost 5 cents per square centimetre, how much would this cone cost? Does this seem realistic?



Question Set #5 Answers.							
Team:							
1)							
a)	1146 square inches						
b)	304.8 square inches						
c)	552.9 square cm						
2)							
a)	117.8 square cm						
	\$5.89 (or 589 cents) No, this is not reasonable as it costs more than the ice creand cone are sold for.	am					