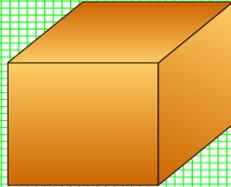# Work sheet for 5th Grade Math Video 3 Name _____

What should you do if you wish to gift wrap this box? Circle the correct answer below.   Problem 1

What should you measure to determine how much wrapping paper you will need to wrap this box?

A. circumference   B. perimeter

C. surface area   D. volume

SURFACE AREA SMACKDOWN   ROUND 1

Determine the winner of each boxing match by finding the surface area of each box.   The box with the larger surface area is the winner.   Write the surface area under each box.   All measurements are given in inches.   Be sure to show your work.

Surface area =
2*[(length*width)+(length*height)+(height*width)]

7   11
8

442 sq. i
L x W = **77**
L x H = **88**
H x W = **56**
_____
221
221 x 2 = 442

BOXING **1** MATCH   13   7
6

_____ * 2 =_____

L * W   = _____
L * H   = _____
H * W   = _____
           _____   sq. in

SURFACE AREA SMACKDOWN   ROUND 2

Determine the winner of each boxing match by finding the surface area of each box.   The box with the larger surface area is the winner.   Write the surface area under each box.   All measurements are given in inches.   Be sure to show your work.

Surface area =
2*[(length*width)+(length*height)+(height*width)]

1   3
4

38 sq.
L x W = **3**
L x H = **12**
H x W = **4**
_____
19
19 x 2 = 38

BOXING **2** MATCH   3   2
2

_____ * 2 =_____

L * W   = _____
L * H   = _____
H * W   = _____
           _____   sq. in

Surface Area of a Cube
prob 4

A cube has six faces.   Each face is identical square. Find the surface area of each cube and multiply by 6

5
5
5
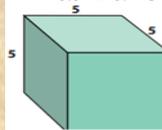
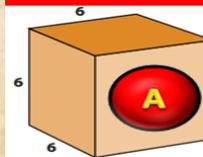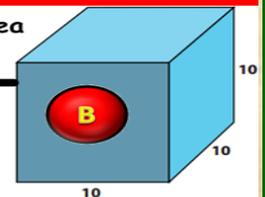Find the area of one face:
Area of a square = L * L
5 * 5 = 25 sq. in.
Surface area is 25 * 6 = 150 sq. in.

6
6
6

A

Surface area
_____

10
10
10
10
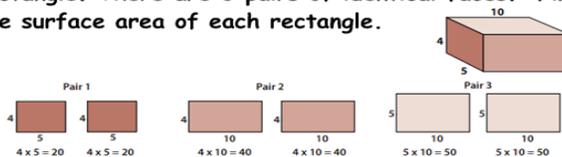
B

Surface area   _____

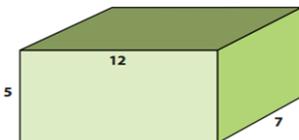**Surface Area of a Rectangular Prism**
prob 5

A rectangular prism has 6 faces.   Each face is a rectangle. There are 3 pairs of identical faces.   Find the surface area of each rectangle.

10
4
5

Pair 1		Pair 2		Pair 3	
4	4	4	4	5	5
5	5	10	10	10	10
4 x 5 = 20	4 x 5 = 20	4 x 10 = 40	4 x 10 = 40	5 x 10 = 50	5 x 10 = 50

Surface area = 20+20+40+40+50+50 = 220 sq. inches

what is the surface area?   _____

12
5
7

_____ * 2 _____

_____ * 2 _____

_____ * 2 _____

_____

Extend Page