Figure	Name	Perimeter/ Circumference	Area
(a)	square	P= a+a+a+a or P= 4a	A= (Side)²
(b)	rectangle	P= l+w+l+w P= 2l+2w	A= Length x Width
$ \begin{array}{c} a \\ h \\ b \end{array} $ (c)	parallelogram	P= a+b+a+b P= 2a+2b	A= Base x Height
a/h b (d)	triangle	P= a+b+c	A= <u>Base x Height</u> 2
$ \begin{array}{c c} & b_1 \\ & b_2 \\ \hline & b_2 \end{array} $ (e)	trapezoid	P= a+ b ₁ +c+b ₂	$A = \frac{(b_1 + b_2)}{2} \times \text{Height}$
(g)	circle	C= π d or C= 2 π r	A = π Γ ²

Answers to Grade 7 & 8 Review (ID: 1)

1) 9 ft²

2) 32.4 cm²

3) 8.06 ft²

4) 106.7 mi²

5) 54.6 km²

127.6 mi²

7) 45.5 m²

8) 3.8 yd²

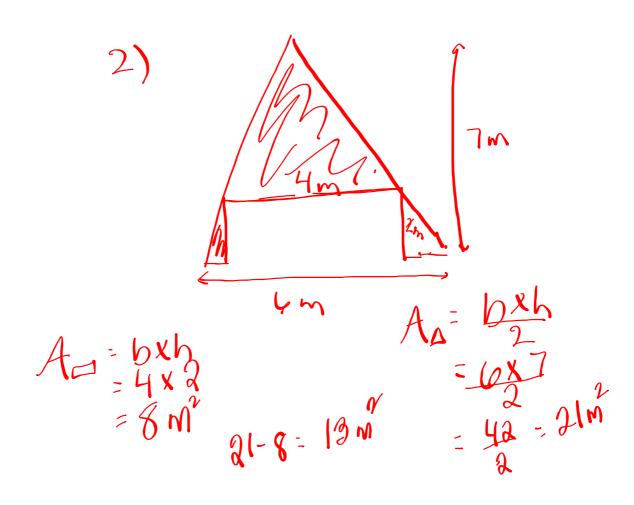
9) 153.9 km²

10) 145.3 km²

Get out your books.

Get out your homework from last week.

Have your formula sheet on hand!



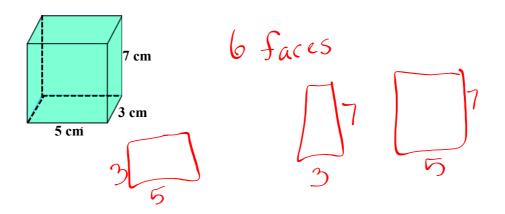
4.
$$\frac{1}{2} = \frac{1}{2} = \frac$$

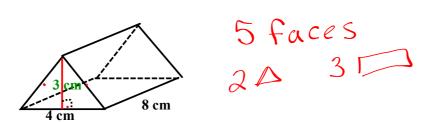
Surface Area

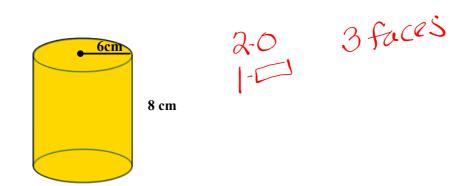
What do I mean when I say surface?

faces

How many surfaces does each shape have?







Surface Area

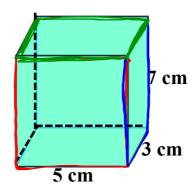
Copy Down

Surface area is the total area of all of the faces of the object.

Steps needed to find Surface area are:

- 1. Draw all of the faces with dimensions displayed on them.
- 2. Find the area of each face.
- 3. Then add up the areas of all of the faces.

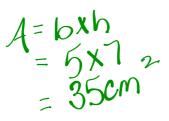
Determine the surfaces area of each shape?

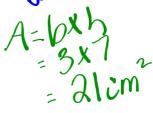


1. Draw all of the faces with dimensions displayed on Left/Right



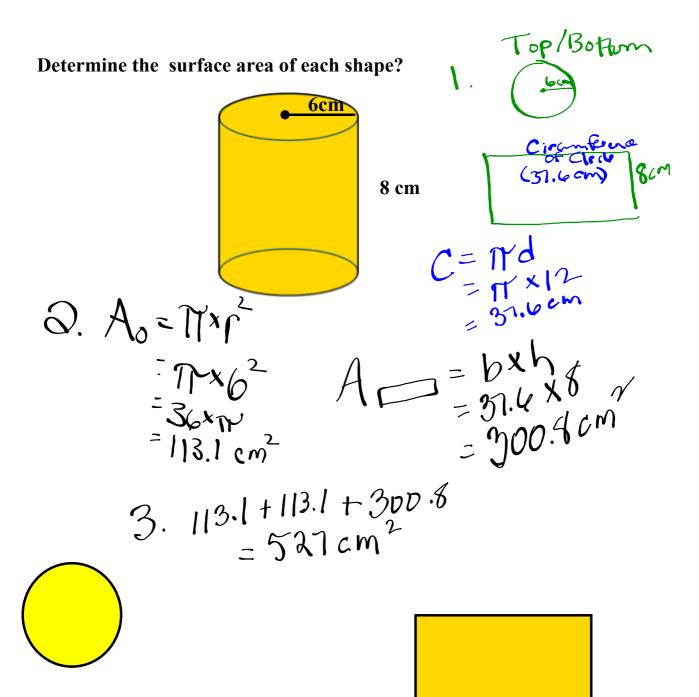
2. Find the area of each face.

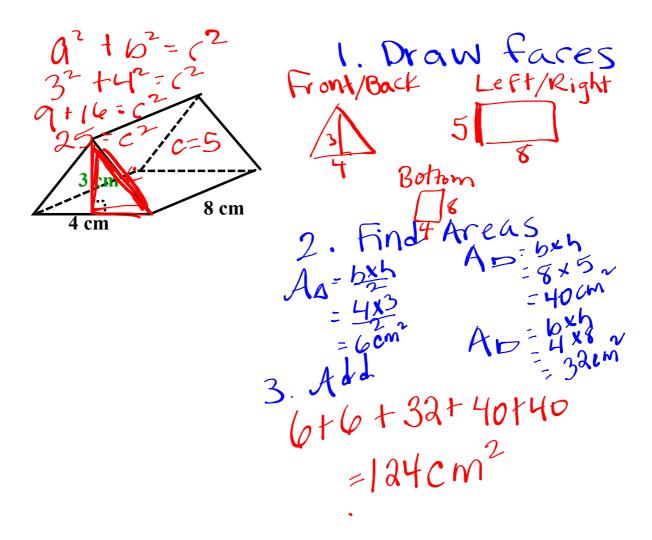




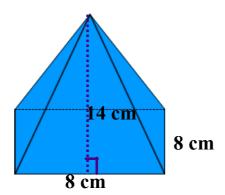
3. Then add up the areas of all of the faces.

 $35cm^2 + 35cm^2 + 21cm^2 + 21cm^2 + 15cm^2 + 1$

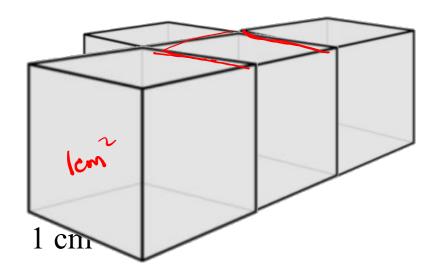




What is the surface area of the following shape?



Find the Surface Area of the Connected Cubes



Method 1 (Think Individually about each shape)

4 cubes connected

* each have 6 faces FIND THE AREA OF EACH FACE

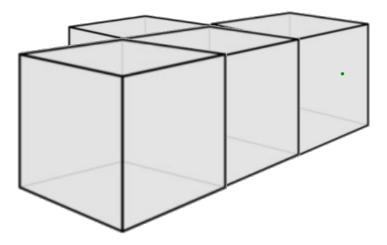
6 x4 = 24cm 2 - 66m 16cm (o cm

BUT

WHAT HAPPENS WHEN YOU JOIN FACES? Do you have to count where they join in "surface area"? NO

With every connected cube 2 faces disappear

Method 2: (Visualize the top/bottom, front/back, side/side)



How many faces do we see on the top?

How many faces do we see on the bottom?

How many faces do we see on the front?

How many faces do we see on the back?

How many faces do we see on the left side?

How many faces do we see on the right side?



page 30 & 31

questions 4 to 7