Curriculum Outcome

(N5) Determine the square root of positive rational numbers that are perfect squares.

(N6) Determine an approximate square root of positive rational numbers that are non-perfect squares.

(SS2) Determine the surface area of composite 3-D objects to solve problems

(N4) **Explain and apply the order of operations, including exponents, with and without technology.**

Parent Teacher

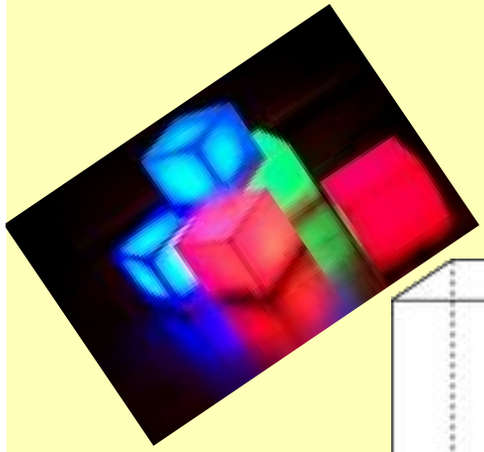
Tonight 4:00-6:00

Tomorrow 9:00-11:30

Remembrance Day Service
Period 2

Intro to High School Math

Section 1.3:
Surface Area of Objects Made from Right Rectangular Prisms



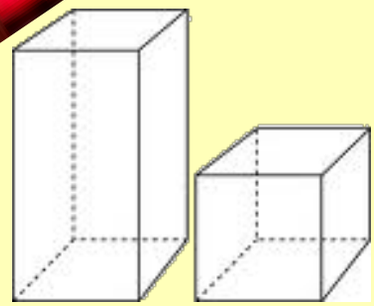
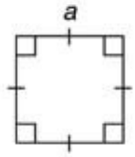
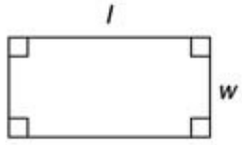
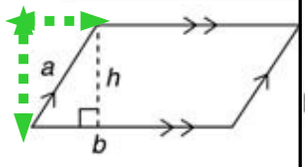
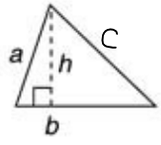
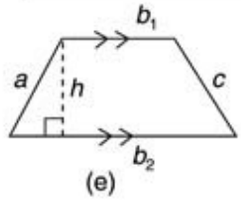
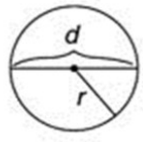
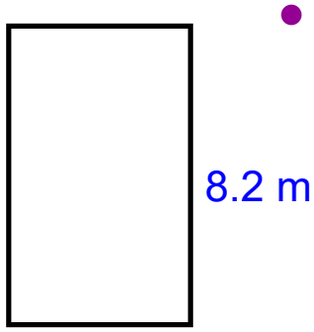


Figure	Name	Perimeter/ Circumference	Area
 (a)	square	P= a+a+a+a or P= 4a	A= $(Side)^2$
 (b)	rectangle	P= l+w+l+w P= 2l+2w	A= Length x Width
 (c)	parallelogram	P= a+b+a+b P= 2a+2b	A= Base x Height
 (d)	triangle	P= a+b+c	A= $\frac{\text{Base x Height}}{2}$
 (e)	trapezoid	P= a+ b_1+c+b_2	A= $\frac{(b_1+b_2)}{2}$ x Height
 (g)	circle	C=πd or C= 2π r	A = πr^2

Find the area and perimeter of both



$A = b \times h$

$A = 2m \times 8.2m$

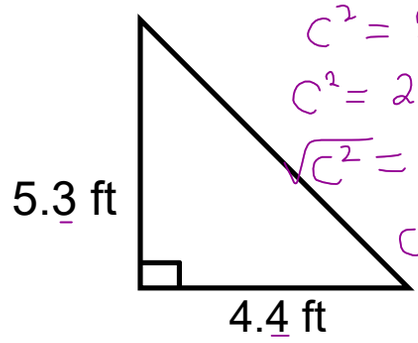
$A = 16.4m^2$

$P = 2l + 2w$

$P = 2(2m) + 2(8.2m)$

$P = 4m + 16.4$

$P = 20.4\ m$



$C^2 = a^2 + b^2$

$C^2 = 5.3^2 + 4.4^2$

$C^2 = 28.09 + 19.36$

$\sqrt{C^2} = \sqrt{47.45}$

$C = 6.9\ ft$

$A = \frac{b \times h}{2}$

$A = \frac{5.3ft \times 4.4ft}{2}$

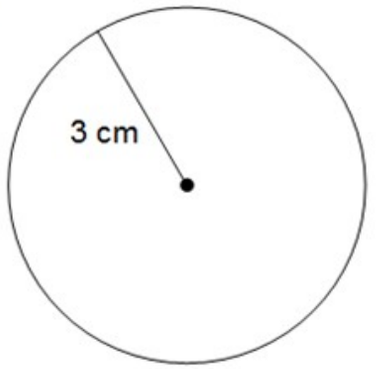
$A = 11.6ft^2$

$P = 5 + 3 + 5$

$P = 4.4 + 5.3 + 6.9$

$P = 16.6\ ft$

8)



$C = 2\pi r$

$C = 2(3.14)(3)$

$C = 18.8$ cm

$A = \pi r^2$

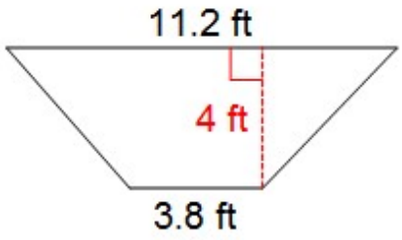
$A = 3.14(3)^2$

$A = 3.14(9)$

$A = 28.3\ cm^2$

Find the area of each.

6)



$A = \left(\frac{b_1 + b_2}{2}\right) h$

$A = \left(\frac{3.8 + 11.2}{2}\right)(4)$

$A = \left(\frac{15}{2}\right) 4$

$A = \frac{60}{2}$

$A = 30 \text{ ft}^2$

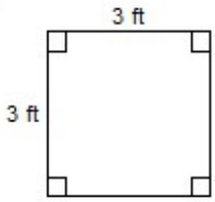
Math 9 Name_____

Grade 7 & 8 Review

Date_____

Find the area of each.

1)



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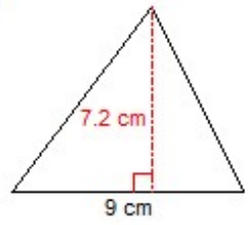

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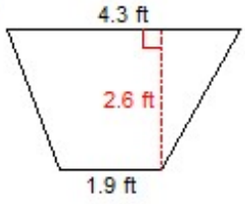
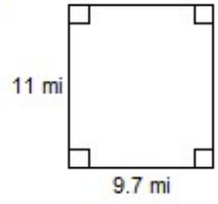
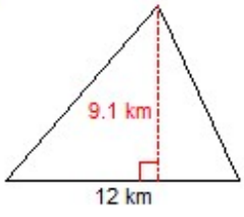


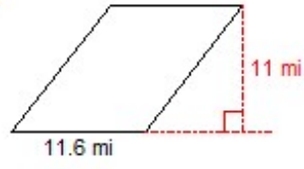
4)



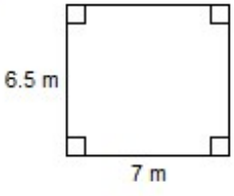
5)



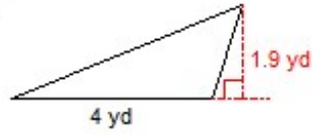
6)



7)



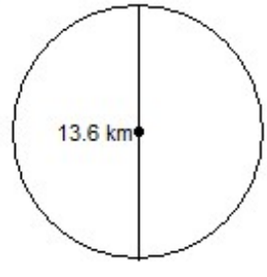
8)



Find the area of each. Round your answer to the nearest tenth.

9)

10)



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

1) 9 ft^2
2) 32.4 cm^2
3) 8.06 ft^2
4) 106.7 mi^2
5) 54.6 km^2
6) 127.6 mi^2
7) 45.5 m^2
8) 3.8 yd^2
9) 153.9 km^2
10) 145.3 km^2