Curriculum Outcome

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

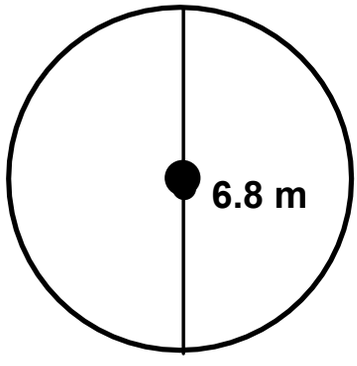
(N6) Determine an approximate square root of positive rational numbers that are non-perfect squares.

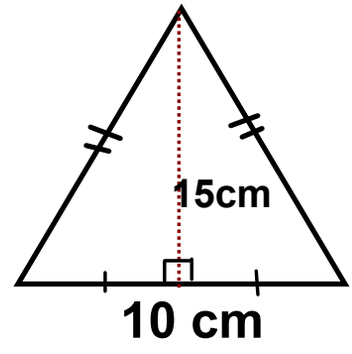
(SS2) Determine the surface area of composite 3-D objects to solve problems

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

Grade 9 Warm Up

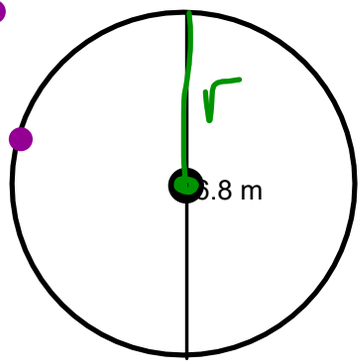
For each of the following Calculate the
i) Area
ii) perimeter/circumference





Grade 9 Warm Up

For each of the following Calculate the
i) Area
ii) perimeter/circumference



$A = \pi r^2$

$A = \pi (3.4)^2$

$A = \pi (11.56)$

$A = 36.3\ m^2$

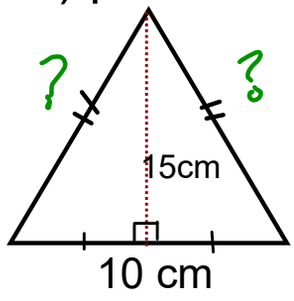
$C = \pi d$

$C = \pi (6.8)$

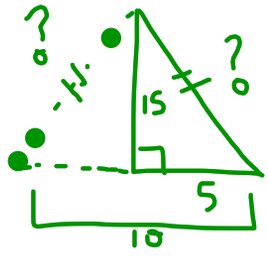
$C = 21.4\ m$

Grade 9 Warm Up

For each of the following Calculate the
i) Area
ii) perimeter/circumference



$$A = \frac{b \times h}{2}$$
$$= \frac{10 \times 15}{2}$$
$$= \frac{150}{2}$$
$$= 75 cm^2$$



$$c^2 = a^2 + b^2$$
$$c^2 = 5^2 + 15^2$$
$$c^2 = 25 + 225$$
$$c^2 = 250$$
$$c = \sqrt{250}$$
$$c = 15.8 cm$$

P=s+s+s

P = 10+15.8+15.8

P= 41.6 cm

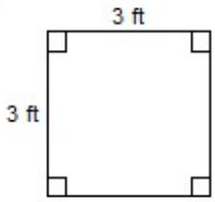
Math 9 Name_____

Grade 7 & 8 Review

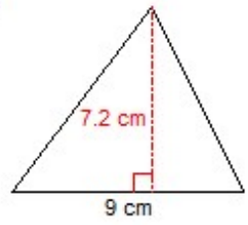
Date_____

Find the area of each.

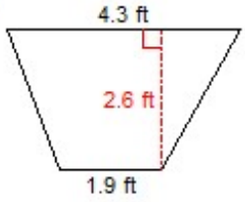
1)



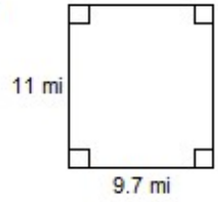
2)



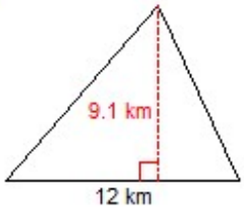
3)



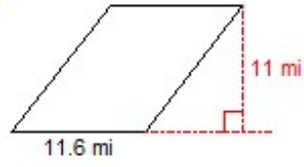
4)



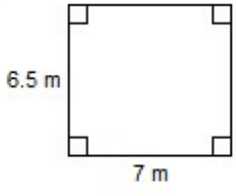
5)



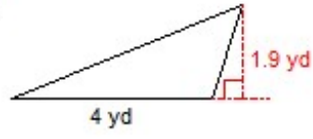
6)



7)



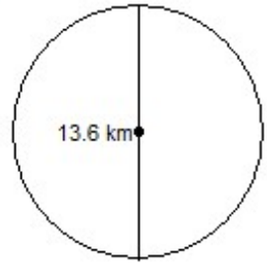
8)



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

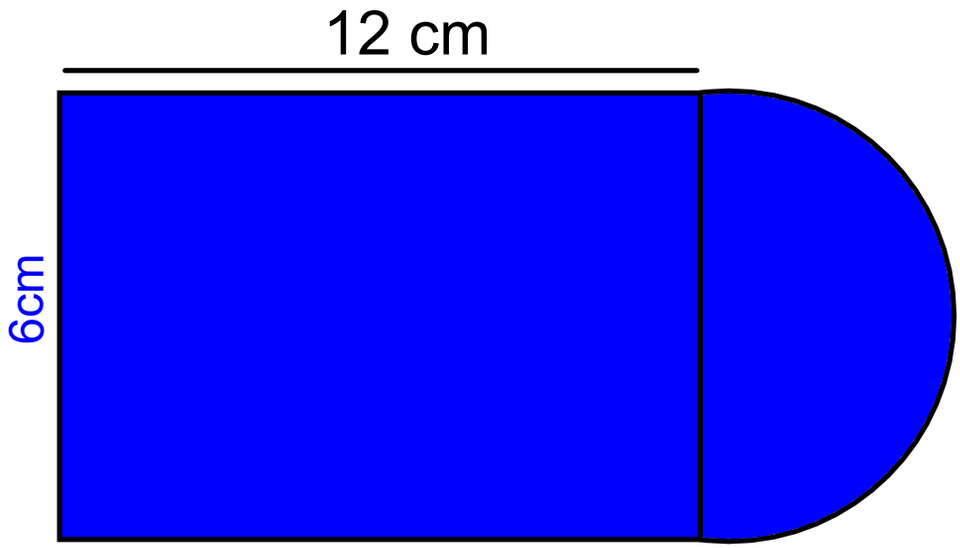
9)

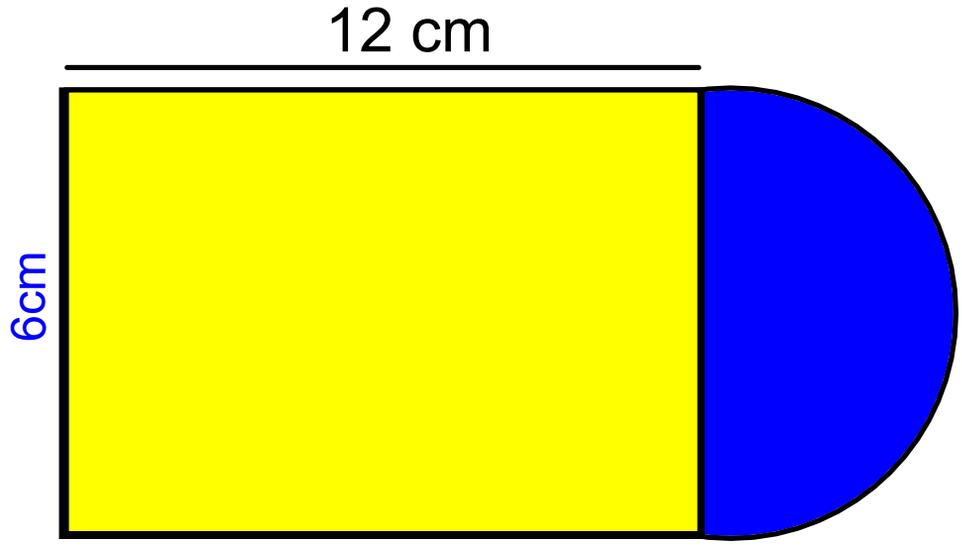
10)



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


12 cm
6cm



$A = b \times h$

$A = 6 \times 12$

$A = 72\,cm^2$

$A = \frac{\pi r^2}{2}$

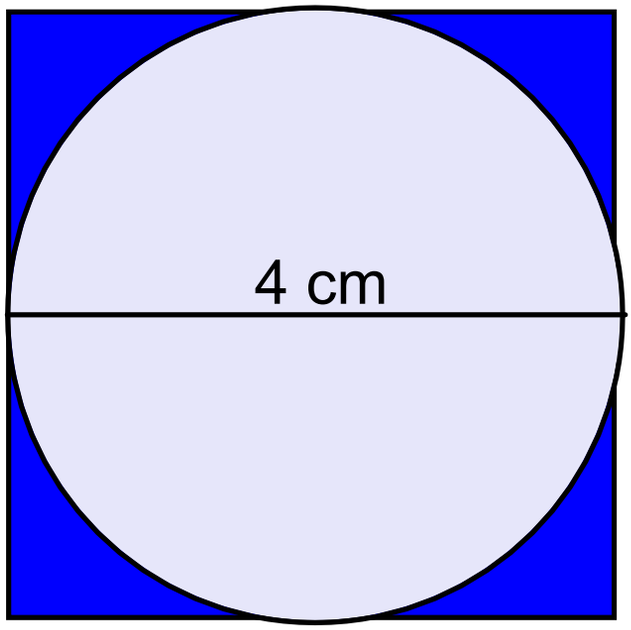
$A = \frac{3.14(3)^2}{2}$

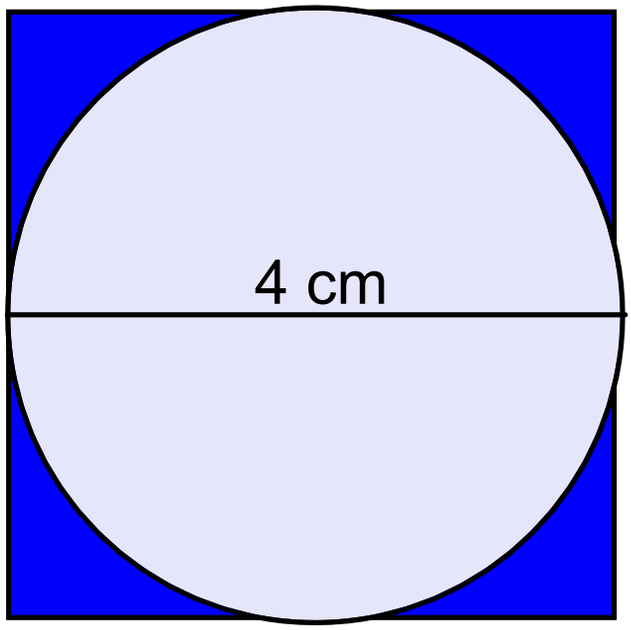
$A = \frac{3.14(9)}{2}$

$A = 14.13\,cm^2$

$T_{SA} = 72 + 14.13$

$= 86.13 cm^2$


4 cm



$A = b \times h$

$A = 4 \times 4$

$A = 16 cm^2$

$A = \pi r^2$

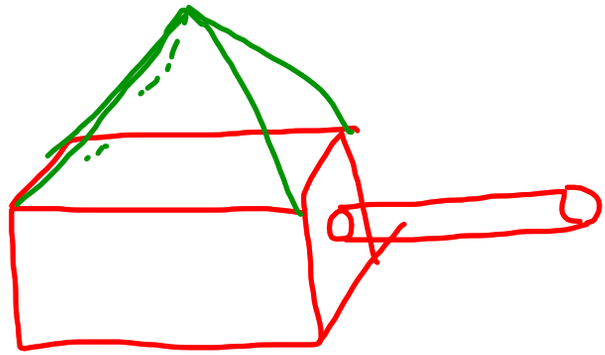
$A = \pi (2)^2$

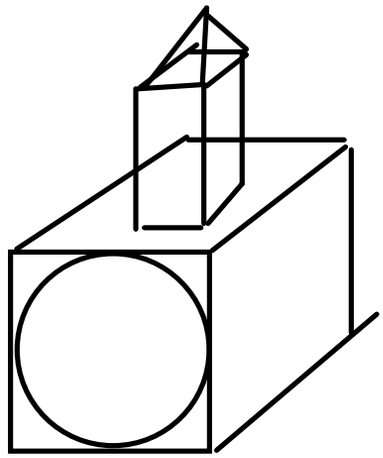
$A = \pi (4)$

$A = 12.56 cm^2$

$TSA = 16 - 12.56\ cm^2$

$= 3.44 cm^2$





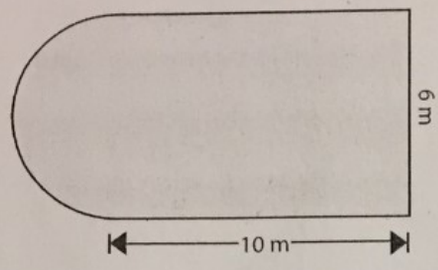
Worksheets

Must show all work

Area - Compound Shapes

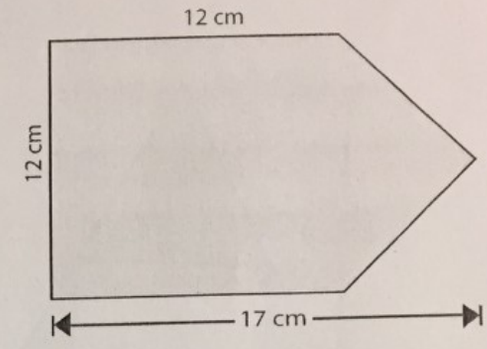
Find the area of each figure. Round tha answer to 2 decimal places if necessary.

1)



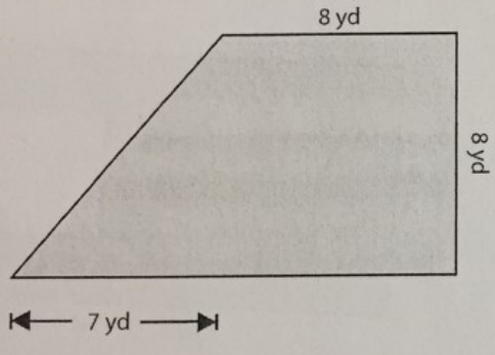
Area = 74.13 m^2

2)



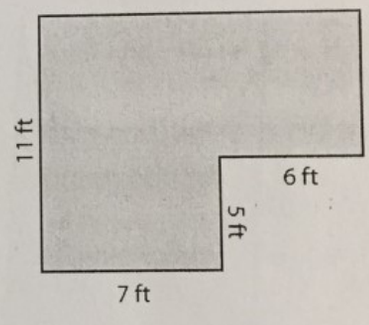
Area = 174 cm^2

3)



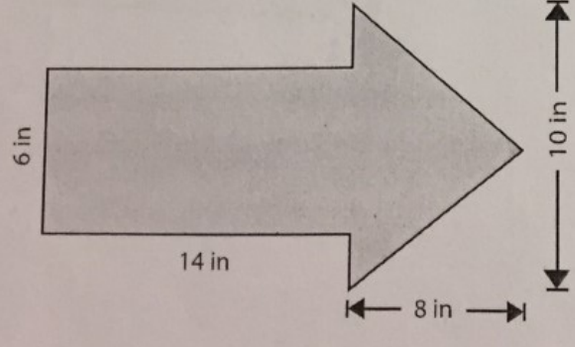
Area = 92 yd^2

4)



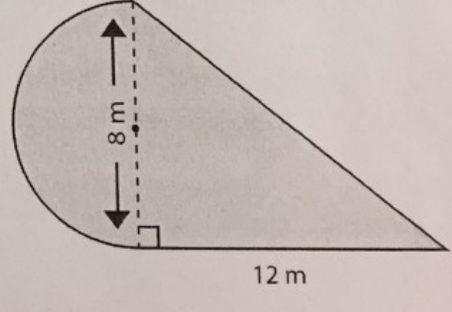
Area = 113 ft^2

5)



Area = 124 in^2

6)

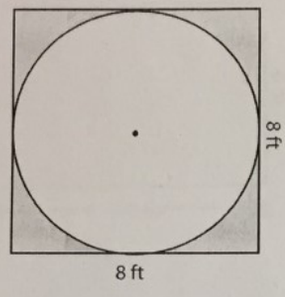


Area = 73.12 m^2

Area - Compound Shapes

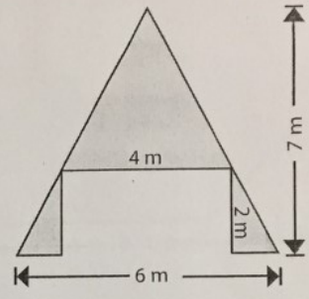
Find the area of shaded region. Round the answer to 2 decimal places if necessary.

1)



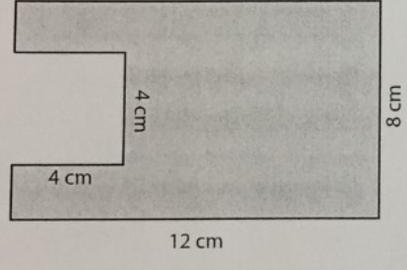
Area = 13.76 ft^2

2)



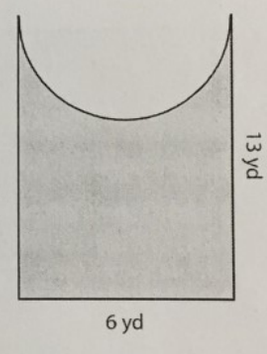
Area = 13 m^2

3)



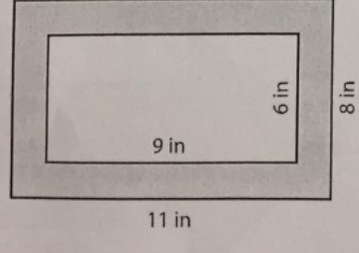
Area = 80 cm^2

4)



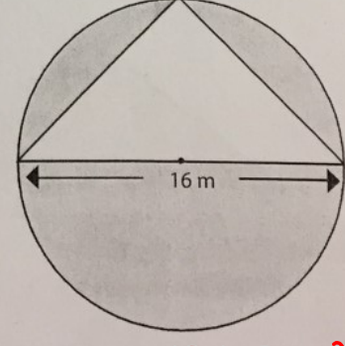
Area = 63.87 yd^2

5)



Area = 34 in^2

6)



Area = 136.96 m^2