

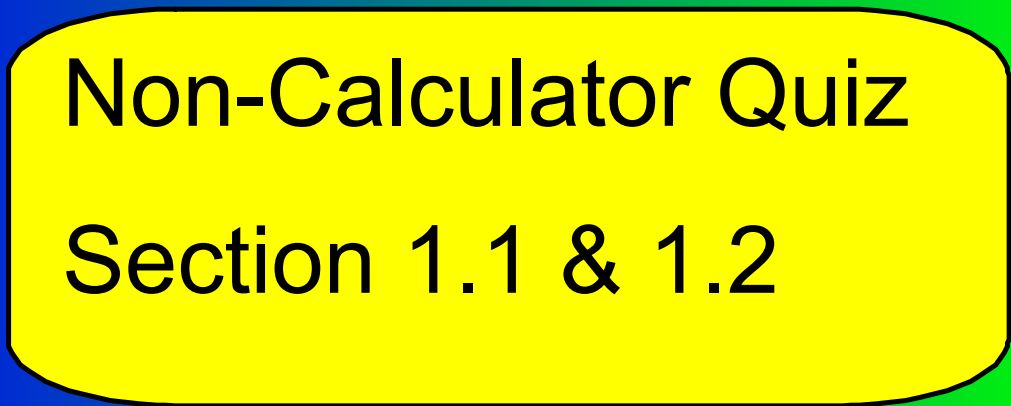
Curriculum Outcome

(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.**



Non-Calculator Quiz
Section 1.1 & 1.2

Intro to High School Math

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

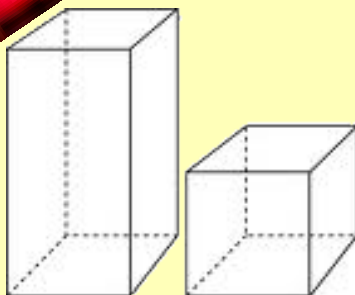
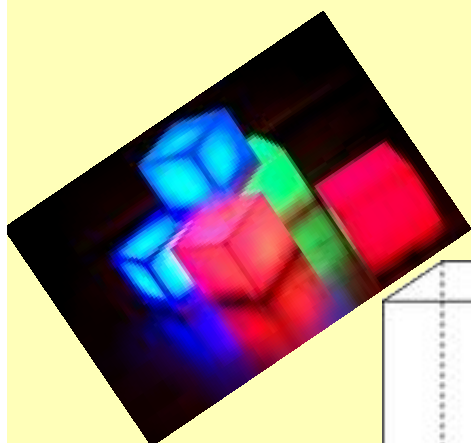
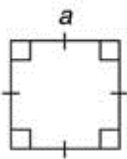
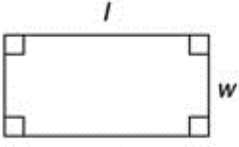
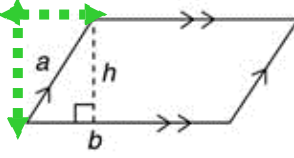
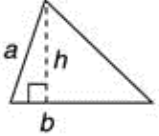
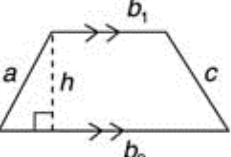
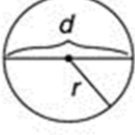
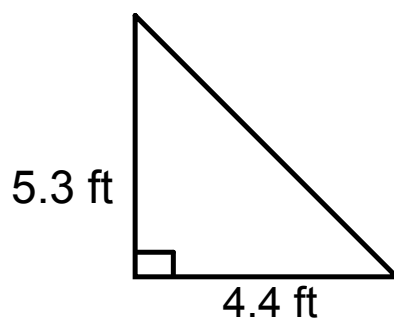
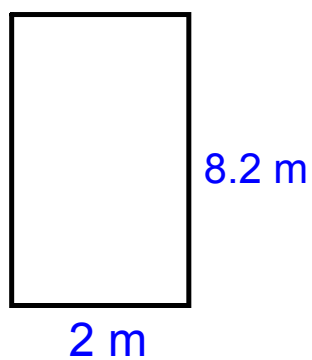
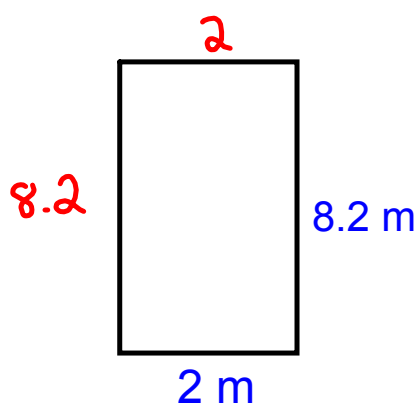


Figure	Name	Perimeter/ Circumference	Area
 <p>(a)</p>	square	$P = a+a+a+a$ or $P = 4a$	$A = (\text{Side})^2$
 <p>(b)</p>	rectangle	$P = l+w+l+w$ $P = 2l+2w$	$A = \text{Length} \times \text{Width}$
 <p>(c)</p>	parallelogram	$P = a+b+a+b$ $P = 2a+2b$	$A = \text{Base} \times \text{Height}$
 <p>(d)</p>	triangle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

Find the area and perimeter of both





$$P = 2l + 2w$$

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

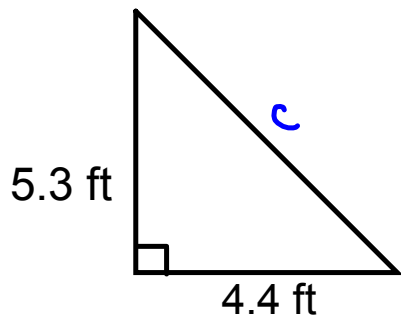
$$P = 16.4 + 4$$

$$P = 20.4 \text{ m}$$

$$A = b \times h$$

$$A = 2 \times 8.2 \text{ m}$$

$$A = 16.4 \text{ m}^2$$



$$c^2 = a^2 + b^2$$

$$c^2 = (5.3)^2 + (4.4)^2$$

$$c^2 = 28.09 + 19.36$$

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

$$c = 6.9$$

$$A_{\Delta} = \frac{b \times h}{2}$$

$$= \frac{(4.4)(5.3)}{2}$$

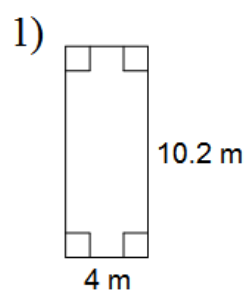
$$= \boxed{11.6 \text{ ft}^2}$$

$$P = s + s + s$$

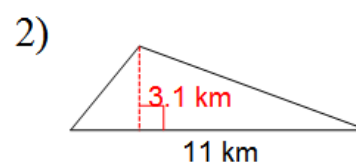
$$P = 5.3 + 4.4 + 6.9$$

$$P = 16.6 \text{ ft}$$

Find the area of each.

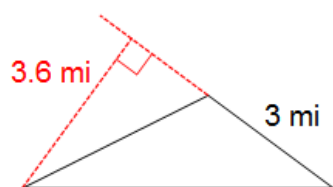


Find the area of each.



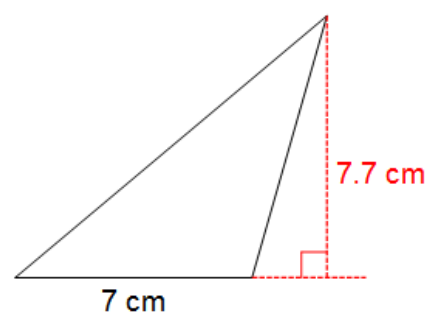
Find the area of each.

3)



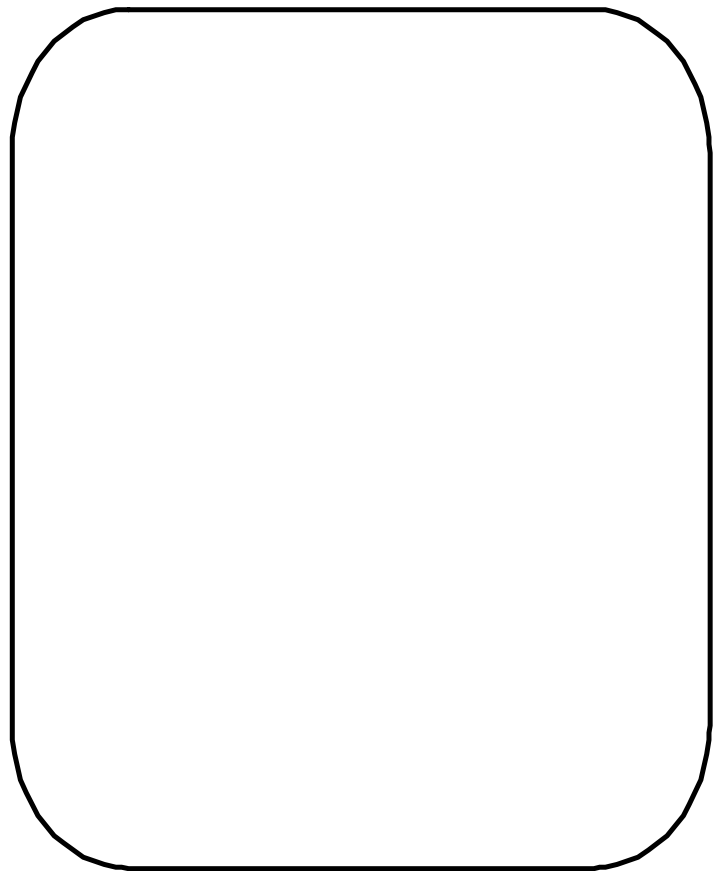
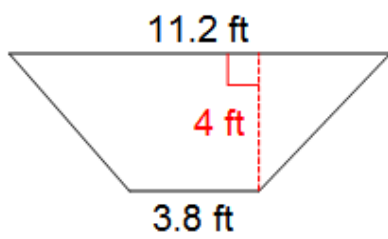
Find the area of each.

4)

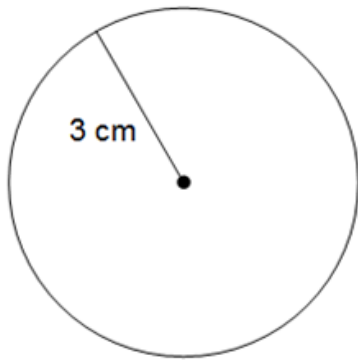


Find the area of each.

6)



8)



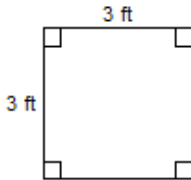
Math 9

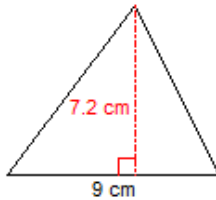
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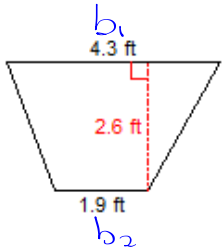
Grade 7 & 8 Review

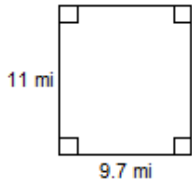
Date _____


Find the area of each.

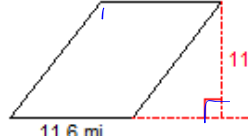
1)  $A = b \times h$
 $A = 3 \times 3$
 $A = 9 \text{ ft}^2$

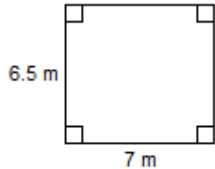
2)  $A = \frac{b \times h}{2}$
 $A = \frac{9 \times 7.2}{2}$
 $A = 32.4 \text{ cm}^2$

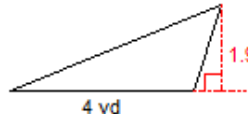
3)  $A = \left(\frac{b_1 + b_2}{2}\right) \times h$
 $A = \left(\frac{4.3 + 1.9}{2}\right) \times 2.6$
 $A = 8.06 \text{ ft}^2$

4)  106.7 mi^2

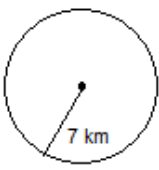
5)  54.6 km^2

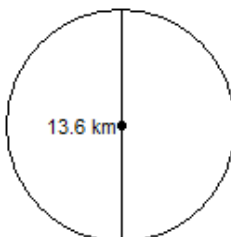
6)  $A = b \times h$
 $A = 11.6 \times 11$
 $A = 127.6 \text{ mi}^2$

7)  $A = 45.5 \text{ m}^2$

8)  $A = 3.8 \text{ yd}^2$

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

9)  $A = \pi r^2$
 $A = \pi (7)^2$
 $A = \pi (49)$
 $A = 153.9 \text{ km}^2$

10)  $A = \pi r^2$
 $A = \pi (6.8)^2$
 $A = \pi (46.24)$
 $A = 145.2 \text{ km}^2$

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 | | |



Grade 9

Warm Up

Hand in (show all work)



1) Without using a calculator determine if the following numbers are PERFECT SQUARES :

- A) 81 b) 2.5 c) 6.25 d) $\frac{18}{64}$ e) $\frac{144}{169}$

2) Use bench marks to estimate each of the following:

a) $\sqrt{4.8}$ b) $\sqrt{69.5}$ c) $\sqrt{145}$

3) Without a calculator estimate each of the following:

a) $\sqrt{\frac{3}{15}}$ b) $\sqrt{\frac{43}{68}}$