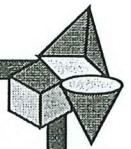


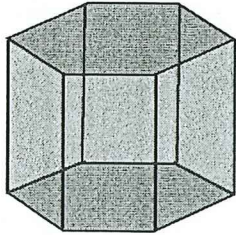
Measurement Review

Name: KEY _____ Developing/Proficient

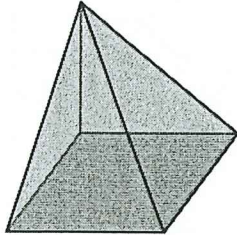
PRISMS & PYRAMIDS



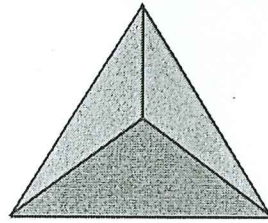
Label each shape.



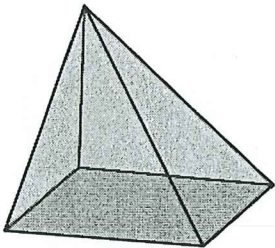
hexagonal prism



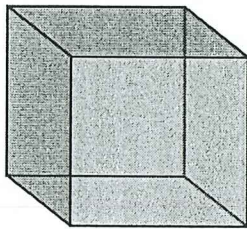
square pyramid



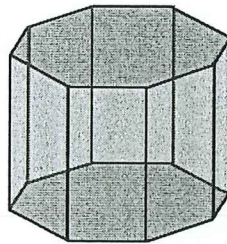
triangular pyramid



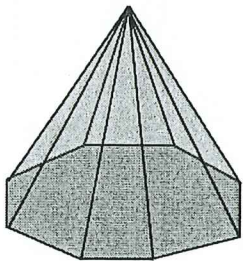
rectangular pyramid



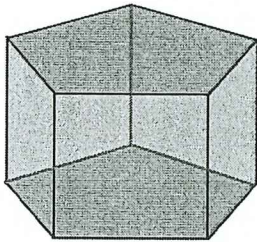
cube



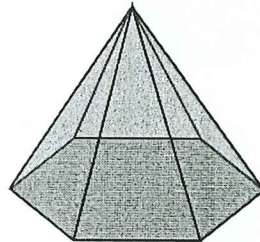
octagonal prism



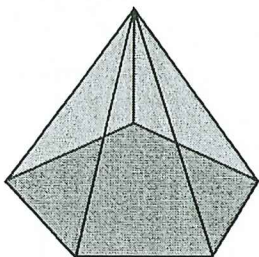
octagonal pyramid



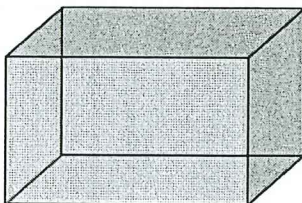
pentagonal prism



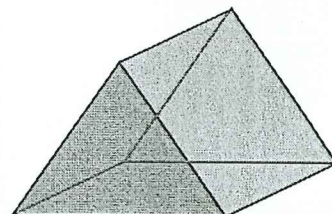
hexagonal pyramid



pentagonal pyramid



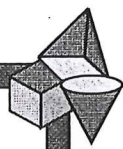
rectangular prism



triangular prism

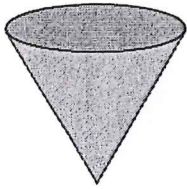
Name: _____

Solid Nets

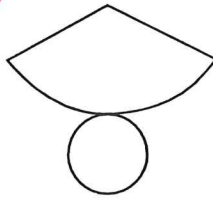


Choose the correct net for each solid shape.

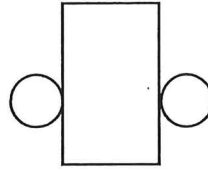
1)



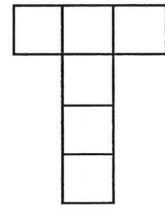
a)



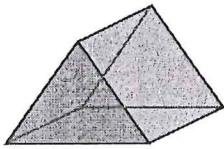
b)



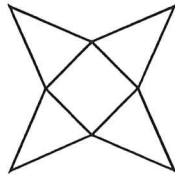
c)



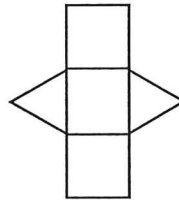
2)



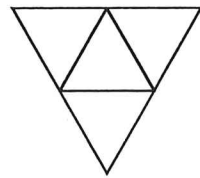
a)



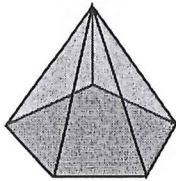
b)



c)



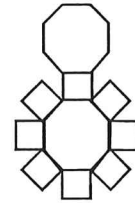
3)



a)



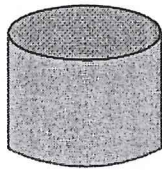
b)



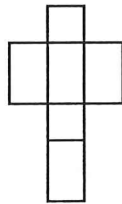
c)



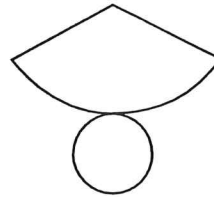
4)



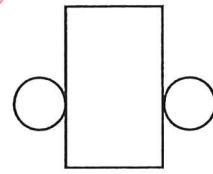
a)



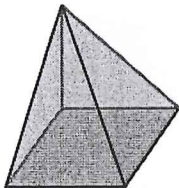
b)



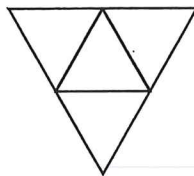
c)



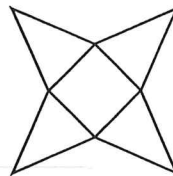
5)



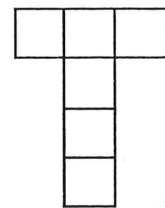
a)



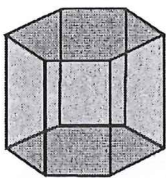
b)



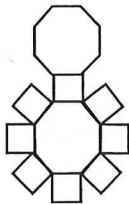
c)



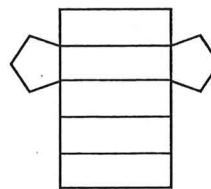
6)



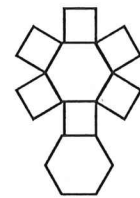
a)



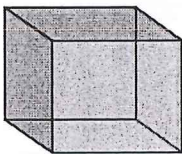
b)



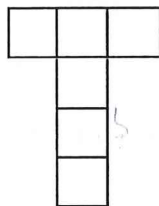
c)



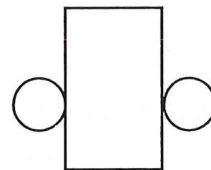
7)



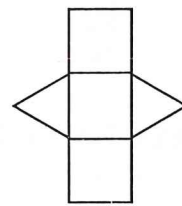
a)



b)



c)



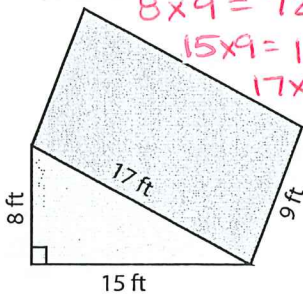
Name: _____

Developing

Surface Area - Prism

Find the exact surface area of each prism.

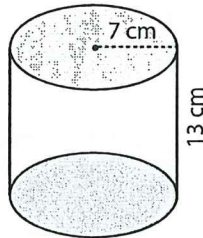
1) $\frac{8 \times 15}{2} \times 2 = 120$



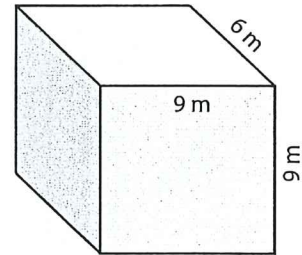
$8 \times 9 = 72$
 $15 \times 9 = 135$
 $17 \times 9 = 153$

Surface Area = 480 ft²

2) $2 \times 3.14 \times 7^2 = 307.72$
 3) $2 \times 3.14 \times 7 \times 13 = 571.48$

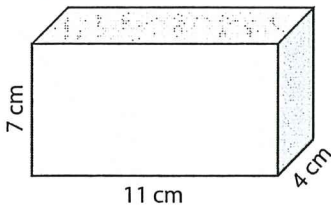


$6 \times 9 \times 2 = 108$
 $6 \times 9 \times 2 = 108$
 $9 \times 9 \times 2 = 162$



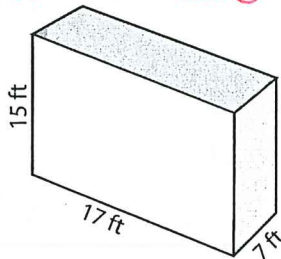
Surface Area = 378 m²

4) $11 \times 7 \times 2 = 154$
 $11 \times 4 \times 2 = 88$
 $7 \times 4 \times 2 = 56$



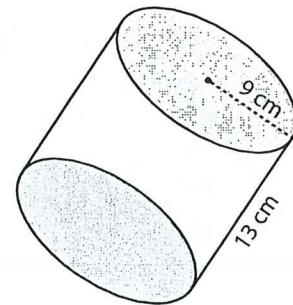
Surface Area = 298 cm²

5) $15 \times 17 \times 2 = 510$
 $15 \times 7 \times 2 = 210$
 $17 \times 7 \times 2 = 238$



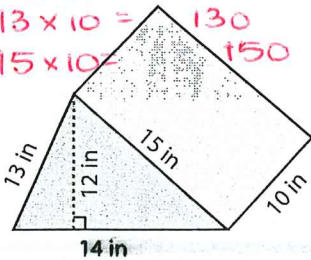
Surface Area = 958 ft²

6) $2 \times 3.14 \times 9^2 = 508.68$
 $2 \times 3.14 \times 9 \times 13 = 734.76$



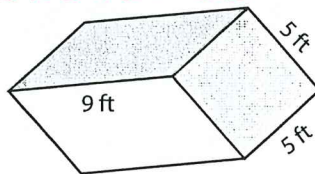
Surface Area = 1243.44 cm²

7) $\frac{14 \times 12}{2} \times 2 = 168$
 $14 \times 10 = 140$
 $13 \times 10 = 130$
 $15 \times 10 = 150$



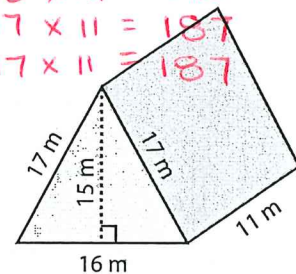
Surface Area = 588 in²

8) $9 \times 5 \times 2 = 90$
 $9 \times 5 \times 2 = 90$
 $5 \times 5 \times 2 = 50$



Surface Area = 230 ft²

9) $\frac{16 \times 15}{2} \times 2 = 240$
 $16 \times 11 = 176$
 $17 \times 11 = 187$
 $17 \times 11 = 187$



Surface Area = 790 m²

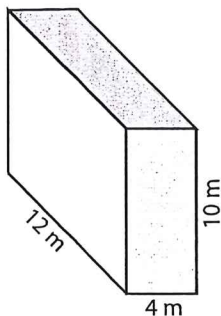
Name: _____

Developing

Volume of Prism

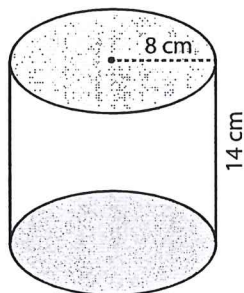
Find the exact volume of each prism.

1) $12 \times 4 \times 10$



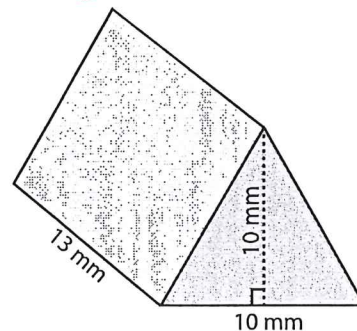
Volume = 480m^3

2) $3.14 \times 8^2 \times 14$



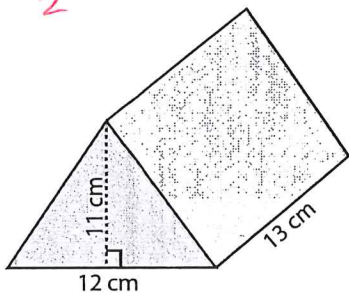
Volume = 2813.44cm^3

3) $\frac{10 \times 10}{2} \times 13 =$



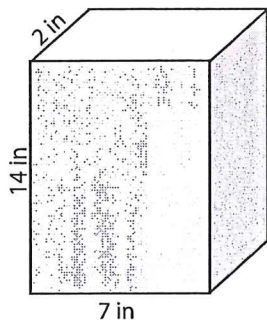
Volume = 650mm^3

4) $\frac{12 \times 11}{2} \times 13$



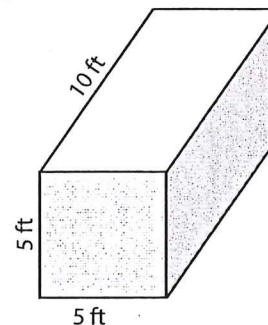
Volume = 858cm^3

5) $14 \times 7 \times 2$



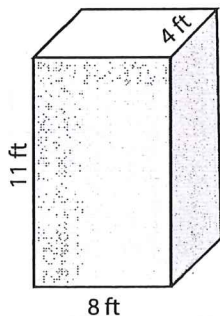
Volume = 196in^3

6) $5 \times 5 \times 10$



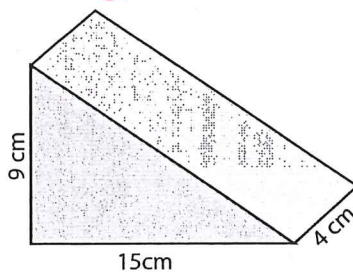
Volume = 250ft^3

7) $11 \times 8 \times 4$



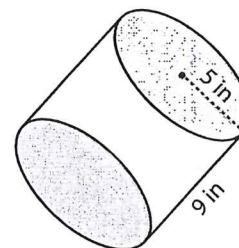
Volume = 352ft^3

8) $\frac{9 \times 15}{2} \times 4$



Volume = 270cm^3

9) $3.14 \times 5^2 \times 9$



Volume = 706.5in^3

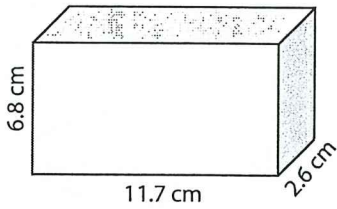
Name : _____

Proficient

Surface Area - Prism

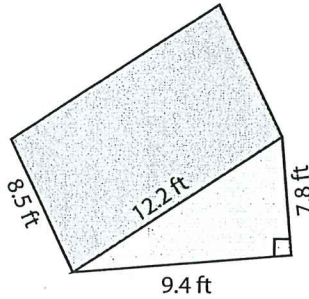
Find the surface area of each prism. Round the answer to nearest tenth. (use $\pi = 3.14$)

1)



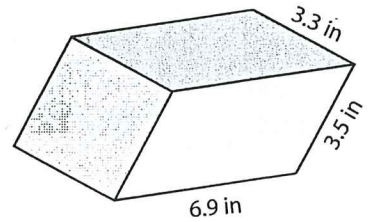
Surface Area = 255.3 cm²

2)



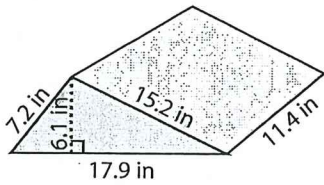
Surface Area = 323.2 ft²

3)



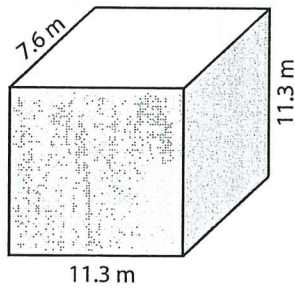
Surface Area = 116.9 in²

4)



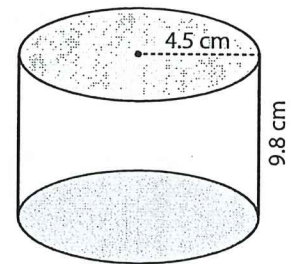
Surface Area = 568.6 in²

5)



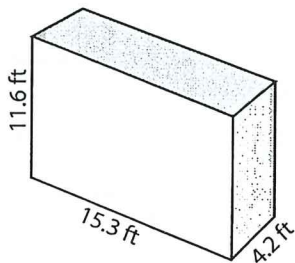
Surface Area = 598.9 m²

6)



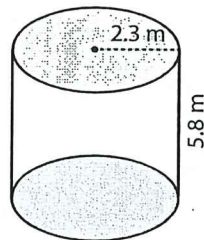
Surface Area = 404.1 cm²

7)



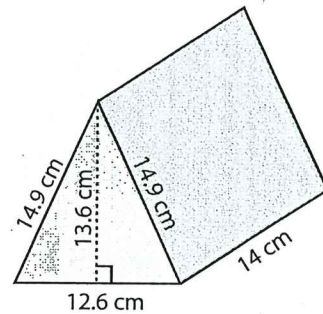
Surface Area = 580.9 ft²

8)



Surface Area = 117 m²

9)



Surface Area = 765 cm²

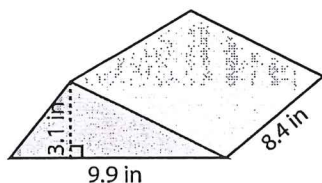
Name: _____

Proficient

Volume of Prism

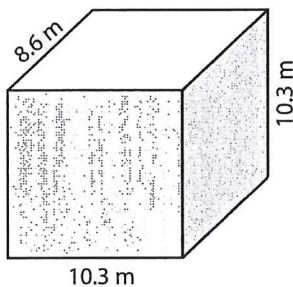
Find the volume of each prism. Round the answer to nearest tenth. (use $\pi = 3.14$)

1)



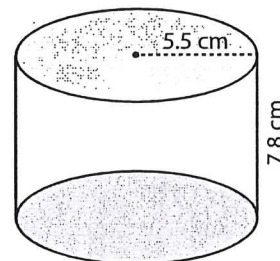
Volume = 128.9 in³

2)



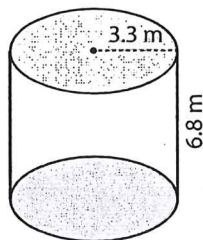
Volume = 912.4 m³

3)



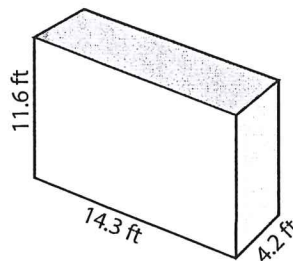
Volume = 740.9 cm³

4)



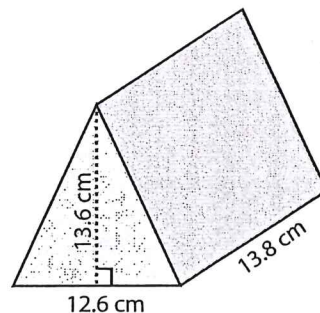
Volume = 232.5 m³

5)



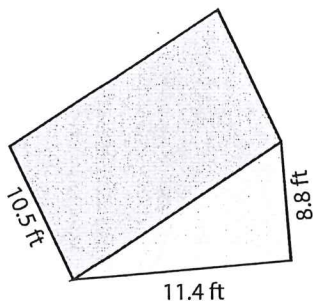
Volume = 696.7 ft³

6)



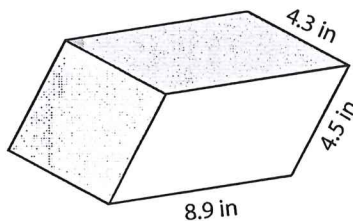
Volume = 1182.4 cm³

7)



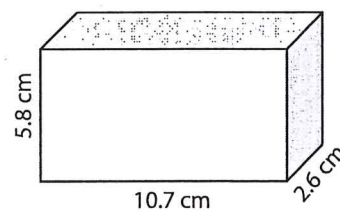
Volume = 526.7 ft³

8)



Volume = 172.2 in³

9)



Volume = 161.4 cm³

Measurement Review

Name: _____

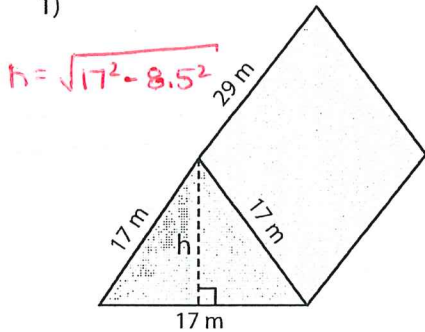
Extending

Sheet 1

Surface Area - Triangular Prisms

Find the height and calculate the surface area of each triangular prism. Round your answer to two decimal places.

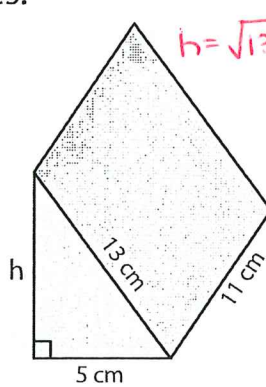
1)



Height (h) = 14.72 m

Surface Area = 1729.24 m²

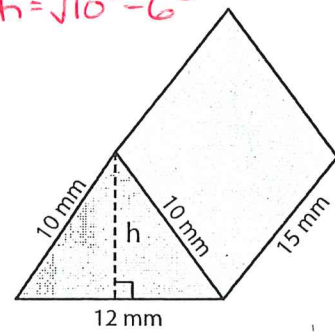
2)



Height (h) = 12 cm

Surface Area = 390 cm²

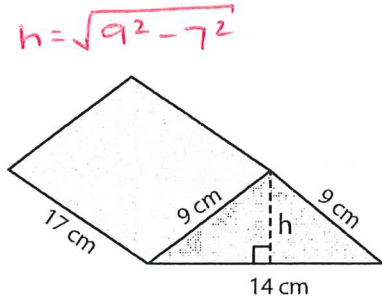
3) $h = \sqrt{10^2 - 6^2}$



Height (h) = 8 mm

Surface Area = 576 mm²

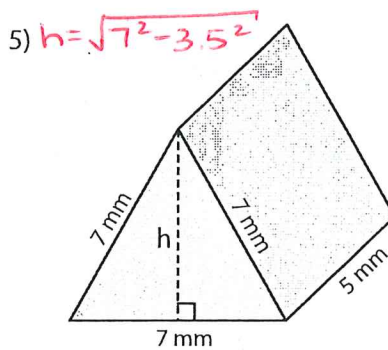
4)



Height (h) = 5.66 cm

Surface Area = 623.24 cm²

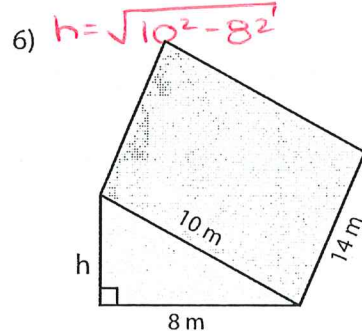
5)



Height (h) = 6.06 mm

Surface Area = 147.42 mm²

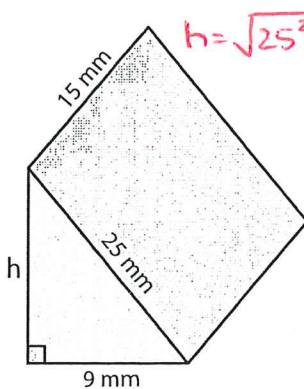
6)



Height (h) = 6 m

Surface Area = 384 m²

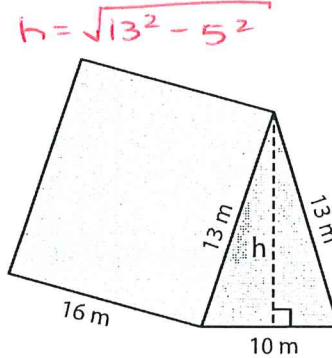
7)



Height (h) = 23.32 mm

Surface Area = 1069.68 mm²

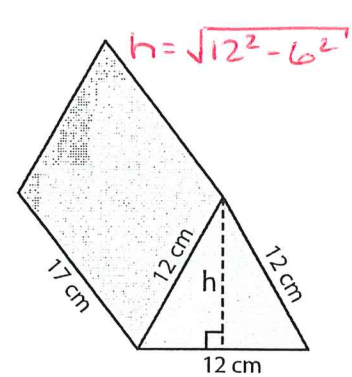
8)



Height (h) = 12 m

Surface Area = 696 m²

9)



Height (h) = 10.39 cm

Surface Area = 736.68

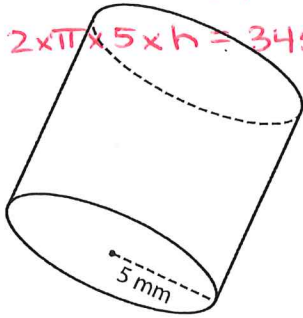
Surface Area - Cylinder

A) Find the indicated measure. (use $\pi = 3.14$)

1) Surface Area = 502.4 mm^2

$$2 \times \pi \times 5^2 = 157$$

$$2 \times \pi \times 5 \times h = 345.4$$

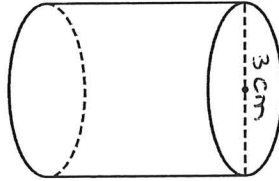


height = 11 mm

2) Surface Area = 188.4 cm^2

$$2 \times \pi \times 1.5^2 = 14.13$$

$$2 \times \pi \times 1.5 \times h = 174.27$$

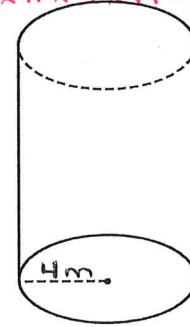


height = 18.5 cm

3) Surface Area = 376.8 m^2

$$2 \times \pi \times 4^2 = 100.48$$

$$2 \times \pi \times 4 \times h = 276.32$$



height = 11 m

B) Find the indicated measure. (use $\pi = 3.14$)

4) Surface Area = 401.92 mm^2 , diameter = 8 mm

$$2 \times \pi \times 4^2 = 100.48$$

$$2 \times \pi \times 4 \times h = 301.44$$

height = 12 mm

5) Surface Area = 628 cm^2 , radius = 5 cm

$$2 \times \pi \times 5^2 = 157$$

$$2 \times \pi \times 5 \times h = 471$$

height = 15 cm

6) Surface Area = 320.28 cm^2 , diameter = 6 cm

$$2 \times \pi \times 3^2 = 56.52$$

$$2 \times \pi \times 3 \times h = 263.76$$

height = 14 cm

7) Surface Area = 565.2 mm^2 , radius = 6 mm

$$2 \times \pi \times 6^2 = 226.08$$

$$2 \times \pi \times 6 \times h = 339.12$$

height = 9 mm

8) Find the height of a cylinder whose surface area is $1,444.4 \text{ m}^2$ and diameter is 20 m.

$$2 \times \pi \times 10^2 = 628$$

$$2 \times \pi \times 10 \times h = 816.4$$

height = 13 m

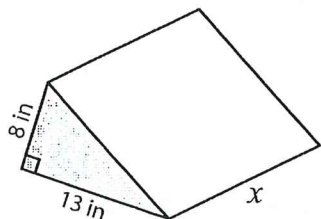
Name: _____

Volume - Prism

Sheet 1

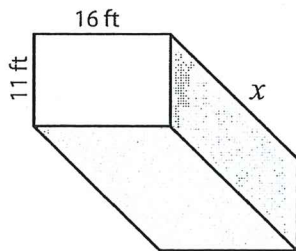
Find the value of x .

1) Volume = 884 in^3
 $(8 \times 13 \div 2)$



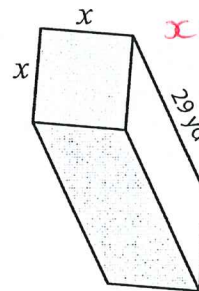
$x = 17 \text{ in}$

2) Volume = $3,696 \text{ ft}^3$
 (11×16)



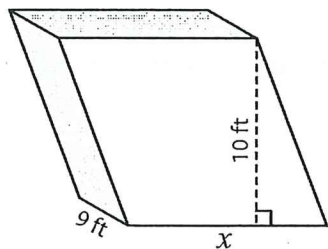
$x = 21 \text{ ft}$

3) Volume = $2,900 \text{ yd}^3$
 $29 = 100$
 $x = \sqrt{100}$



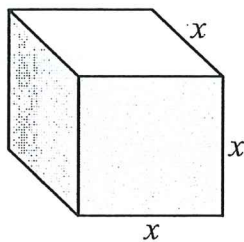
$x = 10 \text{ yd}$

4) Volume = $1,260 \text{ ft}^3$
 (9×10)



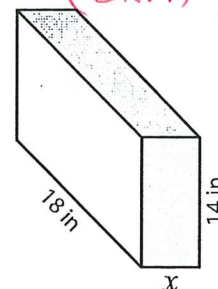
$x = 14 \text{ ft}$

5) Volume = $\sqrt[3]{10,648 \text{ yd}^3}$



$x = 22 \text{ yd}$

6) Volume = $1,512 \text{ in}^3$
 (18×14)



$x = 6 \text{ in}$

7) If the volume of the square prism is $7,600$ cubic inches and the length of the prism is 19 inches, find the side length of the square.

$19 = 400$ $x = \sqrt{400}$

20 in

8) Find the length of the parallelogram prism if its volume is $10,752$ cubic feet and its base and height are 24 feet and 16 feet respectively.

24×16

28 ft

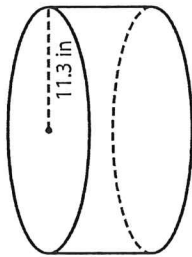
Name : _____

Volume - Cylinder

L2S2

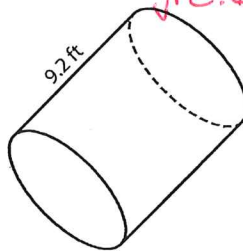
A) Find the indicated measure. Round your answer to the nearest tenth.
(use $\pi = 3.14$)

1) Volume = $2,189.25 \text{ in}^3$
 $\pi \times 11.3^2$



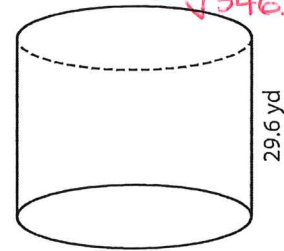
height = 5.5 in

2) Volume = 538.1 ft^3
 $\pi \times 9.2$
 $= \sqrt{18.62711}$



radius = 4.3 ft

3) Volume = $32,167 \text{ yd}^3$
 $\pi \times 29.6$
 $= \sqrt{346.0901}$



diameter = 37.2 yd
 $r = 18.6$

B) Find the indicated measure. Round your answer to the nearest tenth.
(use $\pi = 3.14$)

4) Volume = 453.42 in^3 ; height = 8 in
 $\pi \times 8$
 $= \sqrt{18.050158}$
 $r = 4.2$

diameter = 8.5 in

5) Volume = $15,958.07 \text{ ft}^3$; radius = 19.1 ft
 $\pi \times 19.1^2$

height = 13.9 ft

6) Volume = 827.5 yd^3 ; diameter = 10.8 yd
 $\pi \times 5.4^2$ $r = 5.4$

height = 9.0 yd

7) Volume = $7,454.17 \text{ in}^3$; height = 7.5 in
 $\pi \times 7.5$
 $= \sqrt{316.52525}$

radius = 17.8 in

8) Pouring 197.92 cubic inches of cement into a cylindrical mold, Ryan makes a 3-inch radius structure. Find the height of the structure. Round your answer to the nearest tenth.
(use $\pi = 3.14$)

$\frac{197.92}{\pi \times 3^2}$

7.0 in