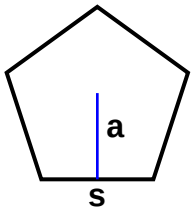
Name : _____ Score : _____

Teacher : _____ Date : _____

Identify and Calculate the Area and Perimeter for each Polygon.

1)



s = 6.8 inches

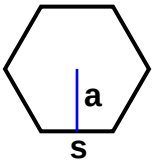
a = 4.6797 inches

Area: _____

Perimeter: _____

Type: _____

2)



s = 5.4 mm

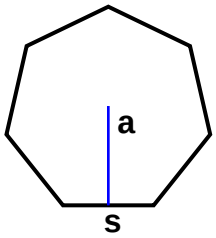
a = 4.6765 mm

Area: _____

Perimeter: _____

Type: _____

3)



s = 3.4 inches

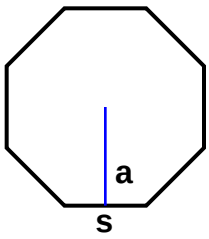
a = 3.5301 inches

Area: _____

Perimeter: _____

Type: _____

4)



s = 7.4 ft

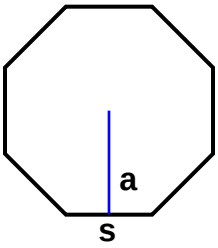
a = 8.9326 ft

Area: _____

Perimeter: _____

Type: _____

5)



s = 7.8 cm

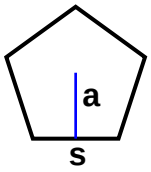
a = 9.4154 cm

Area: _____

Perimeter: _____

Type: _____

6)



s = 5.2 cm

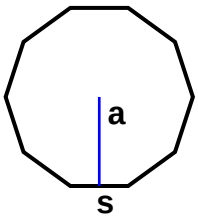
a = 3.5786 cm

Area: _____

Perimeter: _____

Type: _____

7)



s = 3.1 mm

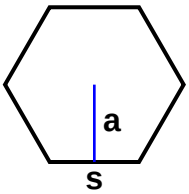
a = 4.7704 mm

Area: _____

Perimeter: _____

Type: _____

8)



s = 6.7 ft

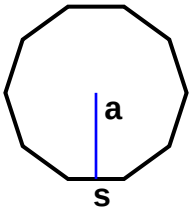
a = 5.8024 ft

Area: _____

Perimeter: _____

Type: _____

9)



s = 3 yds

a = 4.6165 yds

Area: _____

Perimeter: _____

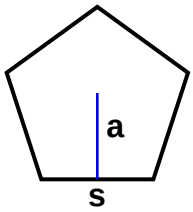
Type: _____

Name : _____ Score : _____

Teacher : _____ Date : _____

Identify and Calculate the Area and Perimeter for each Polygon.

1)



s = 6.8 inches

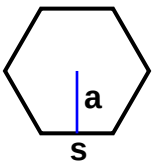
a = 4.6797 inches

Area: 79.55 sq inches

Perimeter: 34 inches

Type: Pentagon

2)



s = 5.4 mm

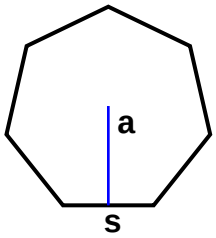
a = 4.6765 mm

Area: 75.76 sq mm

Perimeter: 32.4 mm

Type: Hexagon

3)



s = 3.4 inches

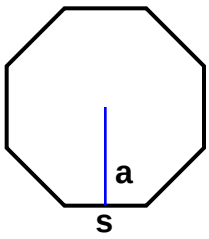
a = 3.5301 inches

Area: 42.01 sq inches

Perimeter: 23.8 inches

Type: Heptagon

4)



s = 7.4 ft

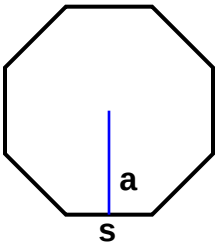
a = 8.9326 ft

Area: 264.4 sq ft

Perimeter: 59.2 ft

Type: Octagon

5)



s = 7.8 cm

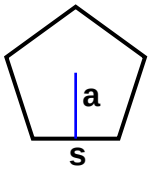
a = 9.4154 cm

Area: 293.76 sq cm

Perimeter: 62.4 cm

Type: Octagon

6)



s = 5.2 cm

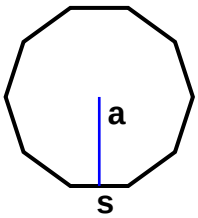
a = 3.5786 cm

Area: 46.52 sq cm

Perimeter: 26 cm

Type: Pentagon

7)



s = 3.1 mm

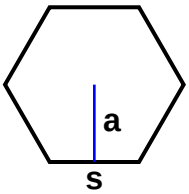
a = 4.7704 mm

Area: 73.94 sq mm

Perimeter: 31 mm

Type: Decagon

8)



s = 6.7 ft

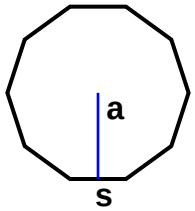
a = 5.8024 ft

Area: 116.63 sq ft

Perimeter: 40.2 ft

Type: Hexagon

9)



s = 3 yds

a = 4.6165 yds

Area: 69.25 sq yds

Perimeter: 30 yds

Type: Decagon

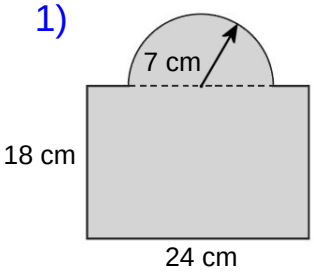
Name : _____ Score : _____

Teacher : _____ Date : _____

Compound Shapes

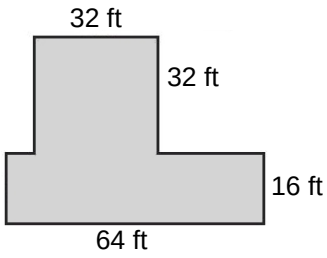
Find the area of each figure, round your answer to one decimal place if necessary.

1)



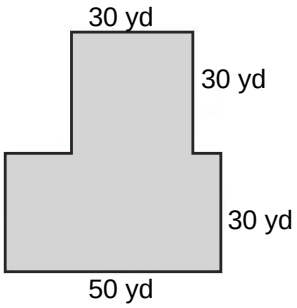
Area: _____

2)



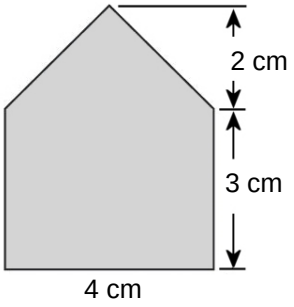
Area: _____

3)



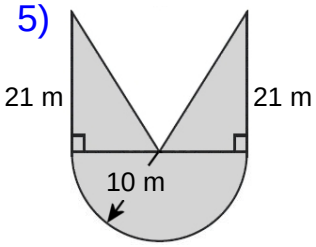
Area: _____

4)



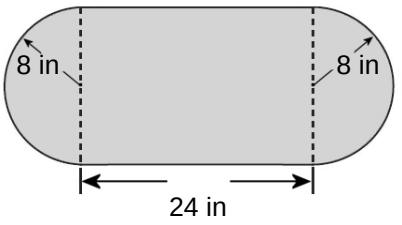
Area: _____

5)



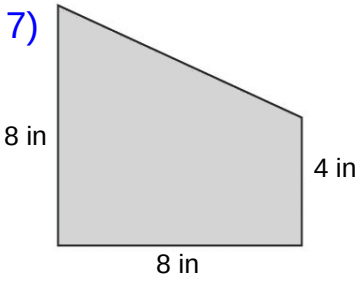
Area: _____

6)



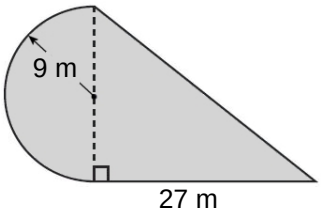
Area: _____

7)



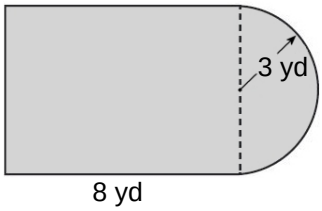
Area: _____

8)



Area: _____

9)



Area: _____

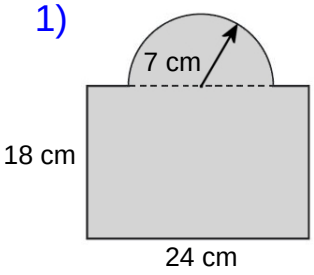
Name : _____ Score : _____

Teacher : _____ Date : _____

Compound Shapes

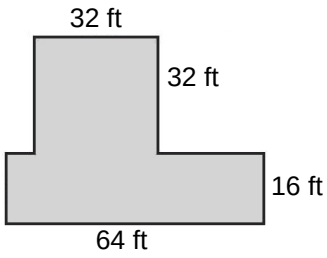
Find the area of each figure, round your answer to one decimal place if necessary.

1)



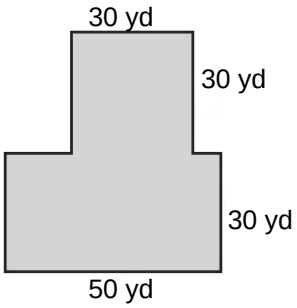
Area: 509 cm^2

2)



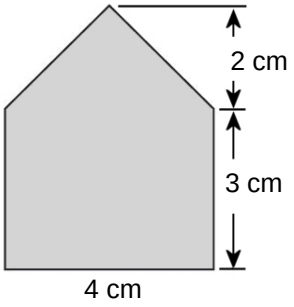
Area: 2048 ft^2

3)



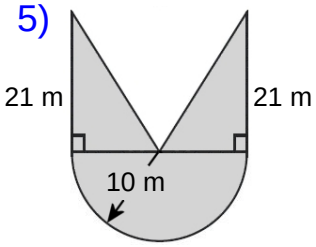
Area: 2400 yd^2

4)



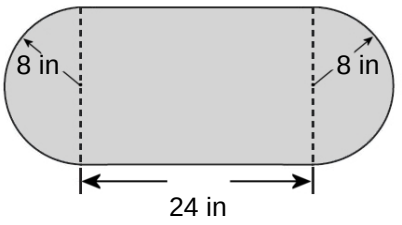
Area: 16 cm^2

5)



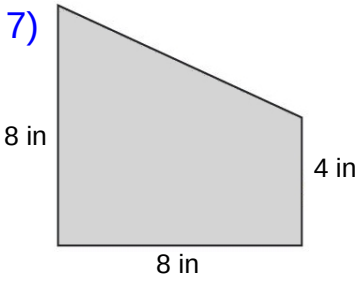
Area: 367.1 m^2

6)



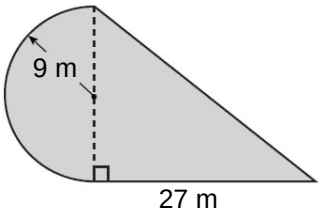
Area: 585.1 in^2

7)



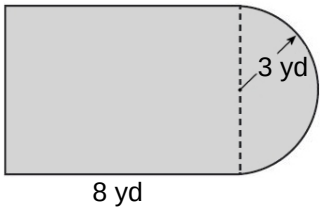
Area: 48 in^2

8)



Area: 370.2 m^2

9)



Area: 62.1 yd^2

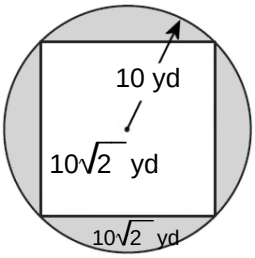
Name : _____ Score : _____

Teacher : _____ Date : _____

Compound Shapes

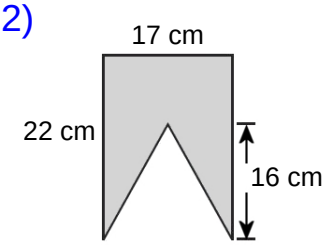
Find the area of each figure, round your answer to one decimal place if necessary.

1)



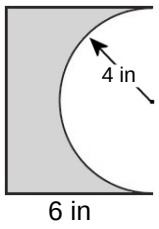
Area: _____

2)



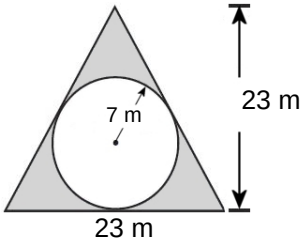
Area: _____

3)



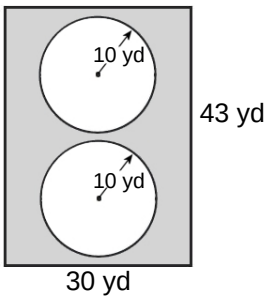
Area: _____

4)



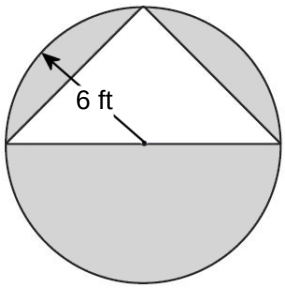
Area: _____

5)



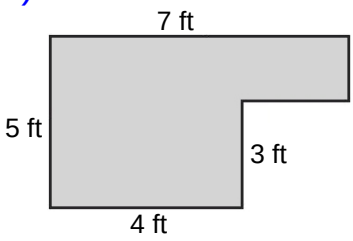
Area: _____

6)



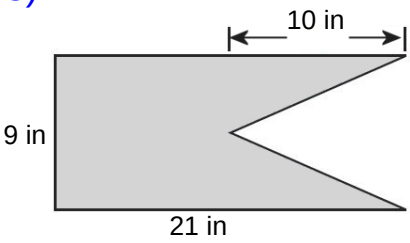
Area: _____

7)



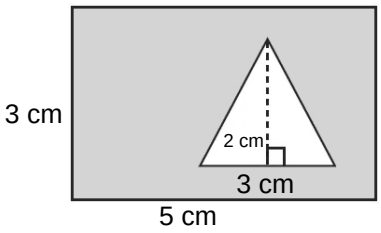
Area: _____

8)



Area: _____

9)



Area: _____

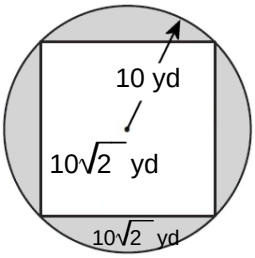
Name : _____ Score : _____

Teacher : _____ Date : _____

Compound Shapes

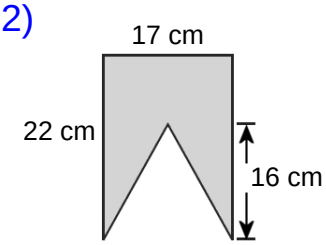
Find the area of each figure, round your answer to one decimal place if necessary.

1)



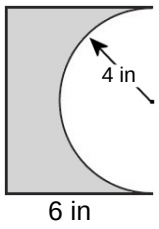
Area: 114.2 yd^2

2)



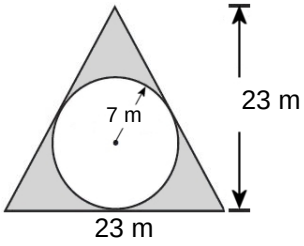
Area: 238 cm^2

3)



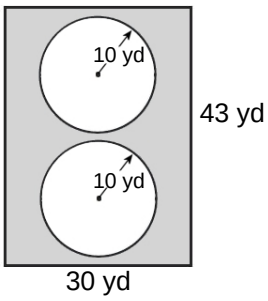
Area: 22.9 in^2

4)



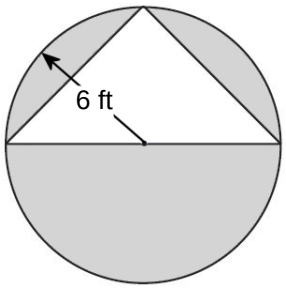
Area: 110.6 m^2

5)



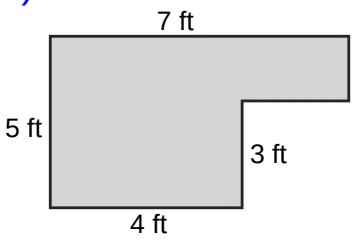
Area: 661.7 yd^2

6)



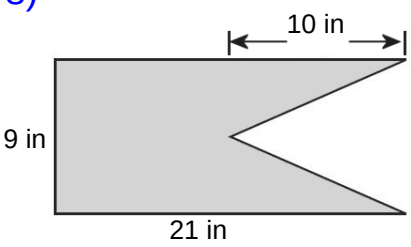
Area: 77.1 ft^2

7)



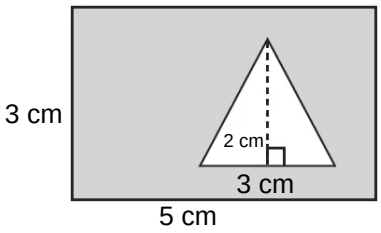
Area: 26 ft^2

8)



Area: 144 in^2

9)



Area: 12 cm^2

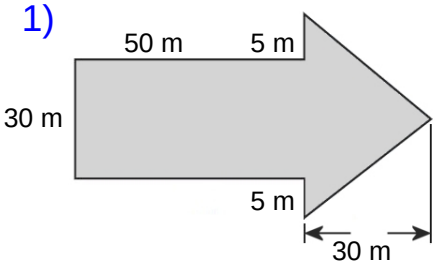
Name : _____ Score : _____

Teacher : _____ Date : _____

Compound Shapes

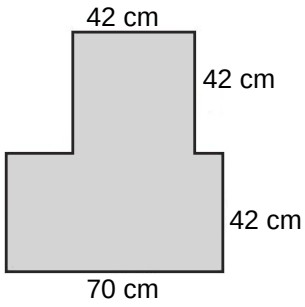
Find the area of each figure, round your answer to one decimal place if necessary.

1)



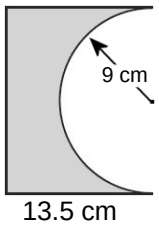
Area: _____

2)



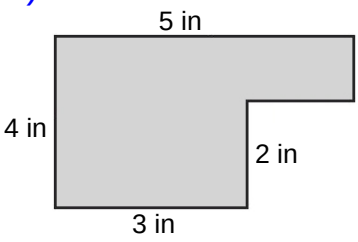
Area: _____

3)



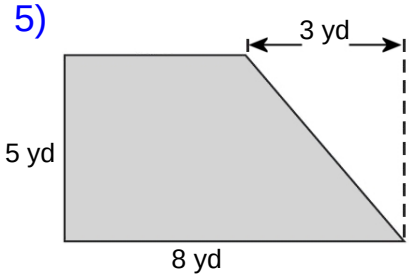
Area: _____

4)



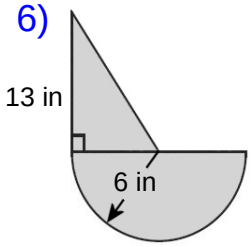
Area: _____

5)



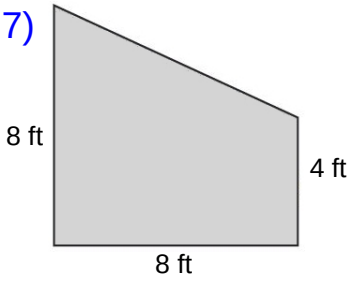
Area: _____

6)



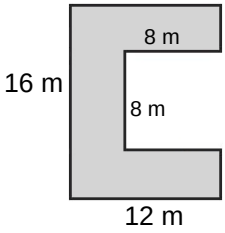
Area: _____

7)



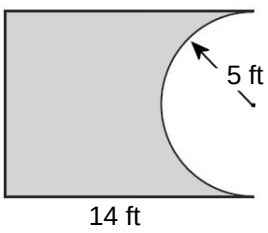
Area: _____

8)



Area: _____

9)



Area: _____

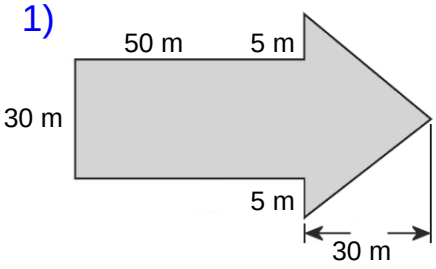
Name : _____ Score : _____

Teacher : _____ Date : _____

Compound Shapes

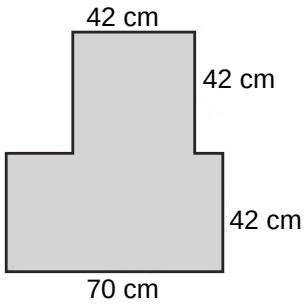
Find the area of each figure, round your answer to one decimal place if necessary.

1)



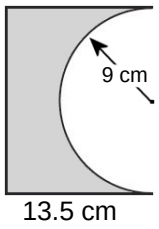
Area: 2100 m^2

2)



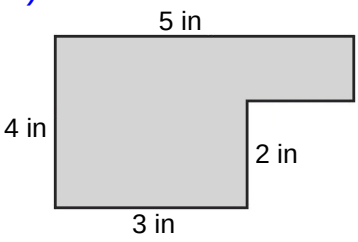
Area: 4704 cm^2

3)



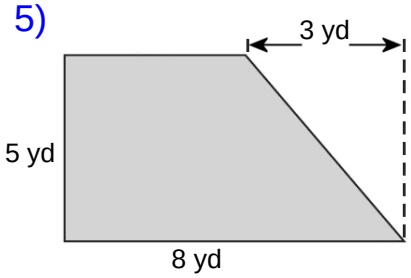
Area: 115.8 cm^2

4)



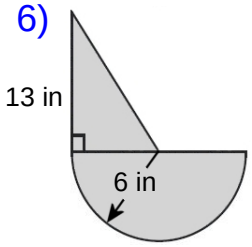
Area: 16 in^2

5)



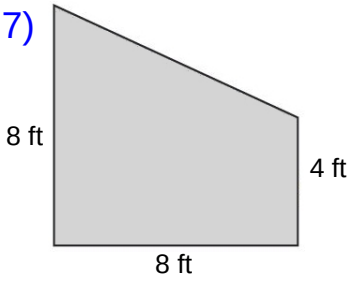
Area: 32.5 yd^2

6)



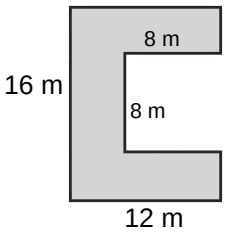
Area: 95.5 in^2

7)



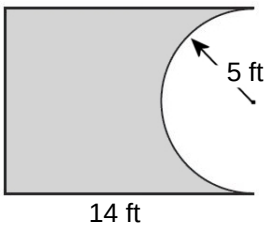
Area: 48 ft^2

8)



Area: 128 m^2

9)



Area: 100.7 ft^2

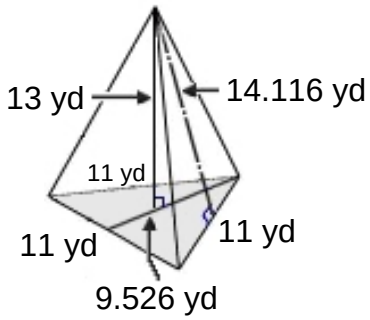
Name : _____ Score : _____

Teacher : _____ Date : _____

Surface Area of Prisms, Pyramids, Cylinders, and Cones

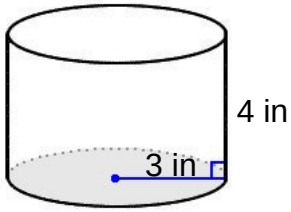
Find the surface area of each figure. Round answers to the nearest hundredth, if necessary.

1)



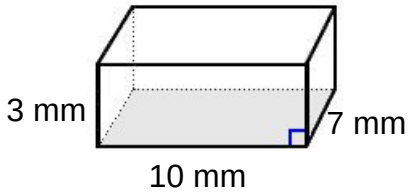
Surface Area: _____

2)



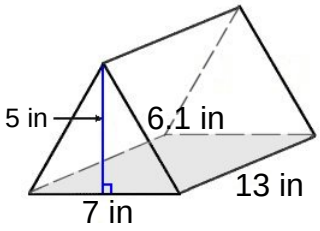
Surface Area: _____

3)



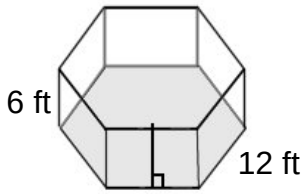
Surface Area: _____

4)



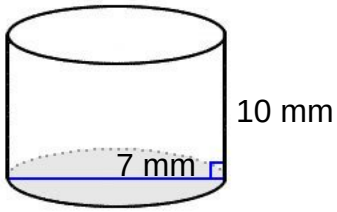
Surface Area: _____

5)



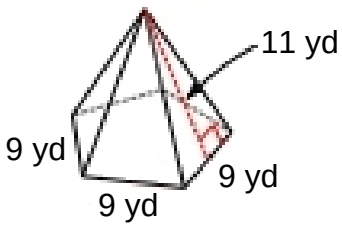
Surface Area: _____

6)



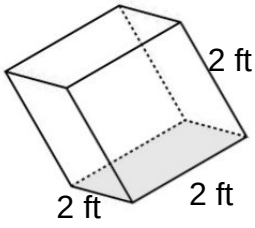
Surface Area: _____

7)



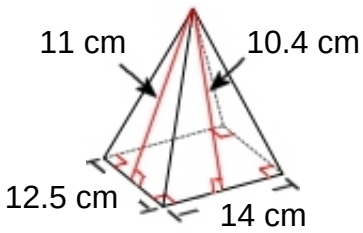
Surface Area: _____

8)



Surface Area: _____

9)



Surface Area: _____

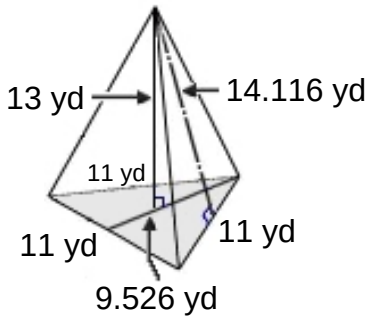
Name : _____ Score : _____

Teacher : _____ Date : _____

Surface Area of Prisms, Pyramids, Cylinders, and Cones

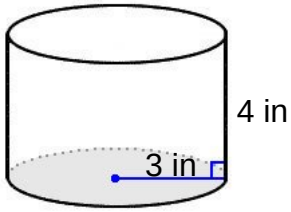
Find the surface area of each figure. Round answers to the nearest hundredth, if necessary.

1)



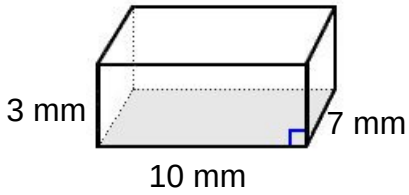
Surface Area: 285.31 yd^2

2)



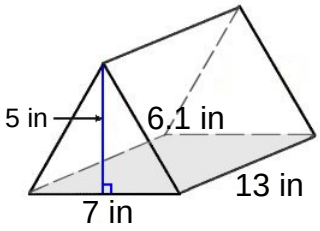
Surface Area: 131.95 in^2

3)



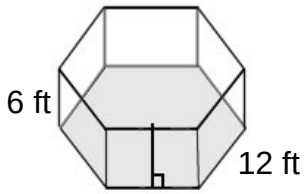
Surface Area: 242.00 mm^2

4)



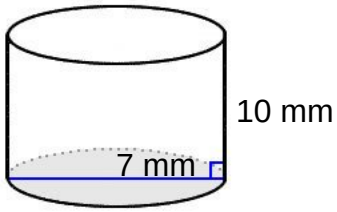
Surface Area: 284.60 in^2

5)



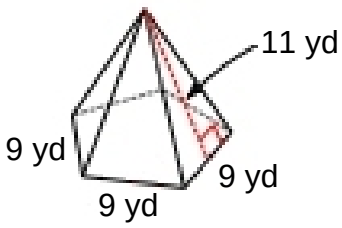
Surface Area: 1180.25 ft^2

6)



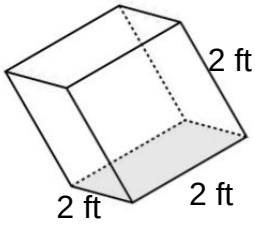
Surface Area: 296.88 mm^2

7)



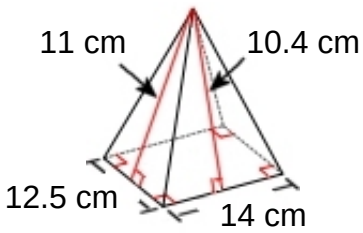
Surface Area: 386.86 yd^2

8)



Surface Area: 24.00 ft^2

9)



Surface Area: 458.10 cm^2

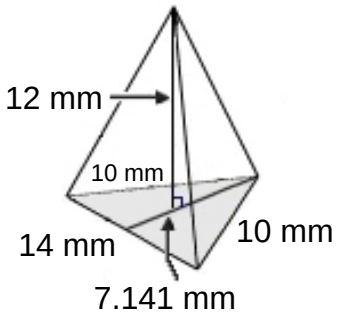
Name : _____ Score : _____

Teacher : _____ Date : _____

Volume of Prisms, Pyramids, Cylinders, and Cones

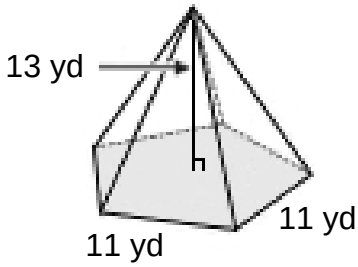
Find the volume of each figure. Round answers to the nearest hundredth, if necessary.

1)



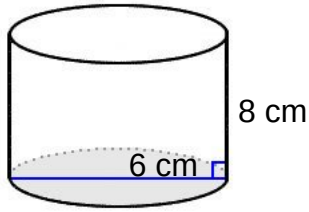
Volume: _____

2)



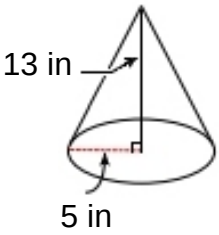
Volume: _____

3)



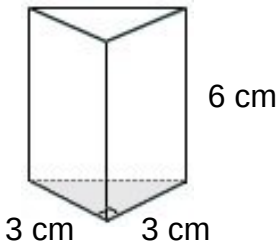
Volume: _____

4)



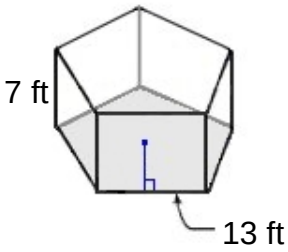
Volume: _____

5)



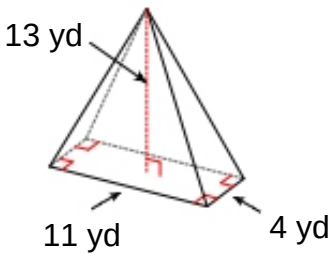
Volume: _____

6)



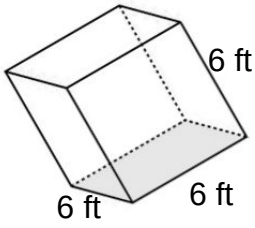
Volume: _____

7)



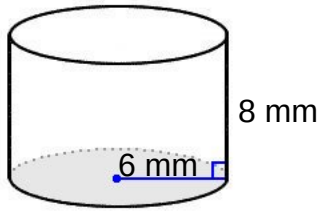
Volume: _____

8)



Volume: _____

9)



Volume: _____

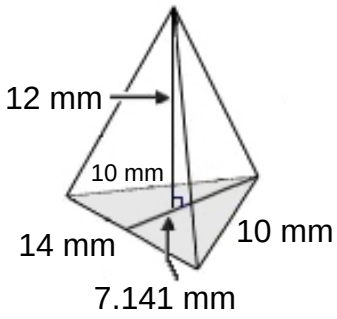
Name : _____ Score : _____

Teacher : _____ Date : _____

Volume of Prisms, Pyramids, Cylinders, and Cones

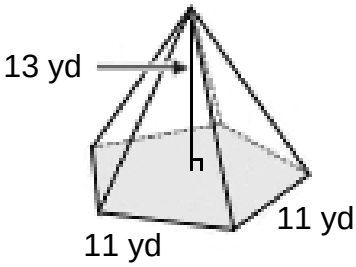
Find the volume of each figure. Round answers to the nearest hundredth, if necessary.

1)



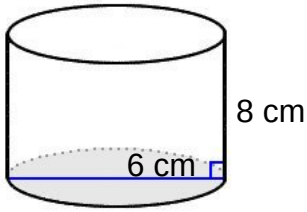
Volume: 199.95 mm^3

2)



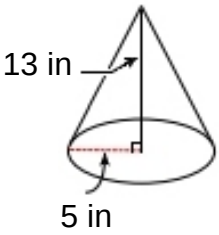
Volume: 902.10 yd^3

3)



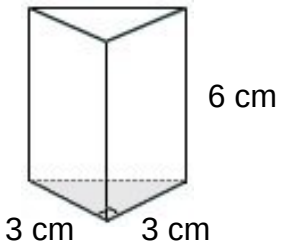
Volume: 226.19 cm^3

4)



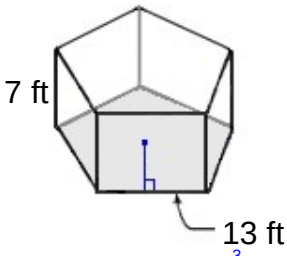
Volume: 340.34 in^3

5)



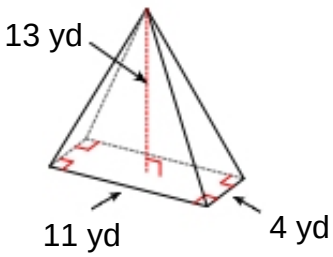
Volume: 27.00 cm^3

6)



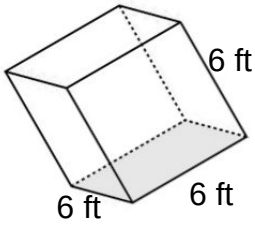
Volume: 2035.32 ft^3

7)



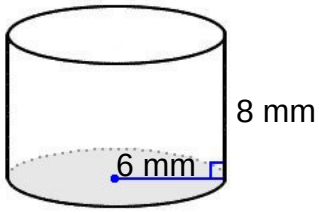
Volume: 190.67 yd^3

8)



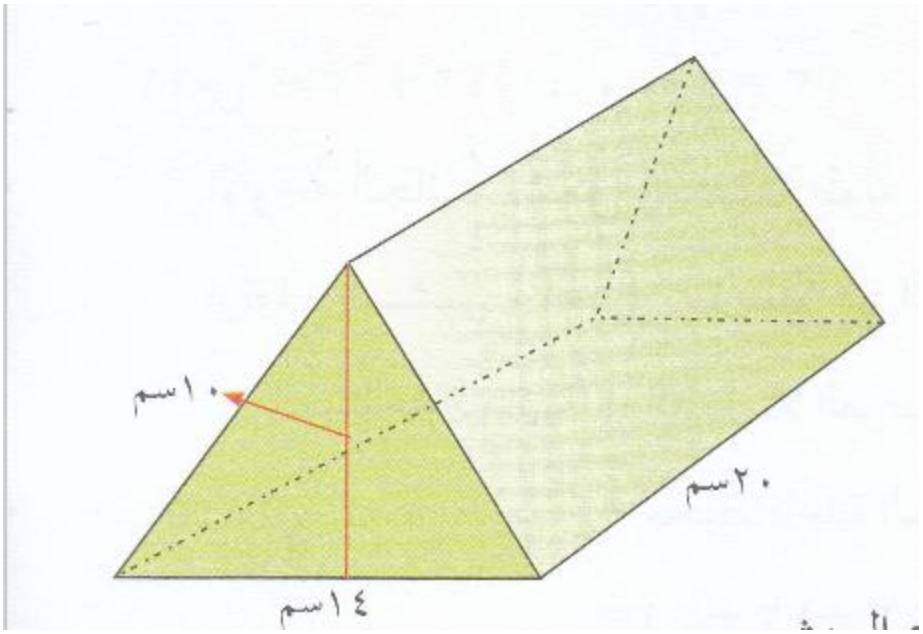
Volume: 216.00 ft^3

9)



Volume: 904.78 mm^3

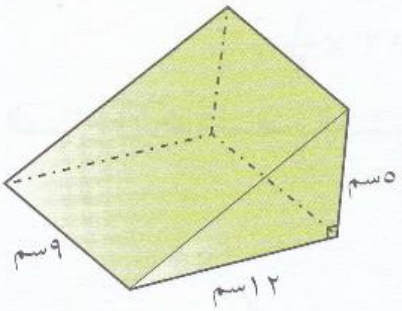
مسائل منوعة على الحجم والمساحة الكلية والمساحة الجانبية



جد حجم المنشور ومساحة الجانبية ومساحته الكلية

تدريبٌ ١

جدْ حجمَ المنشورِ الثلاثيِّ المجاورِ.

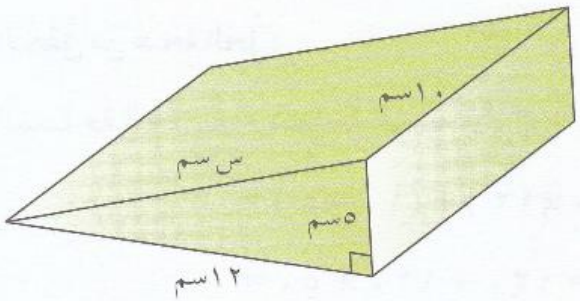


مثالٌ (٢)

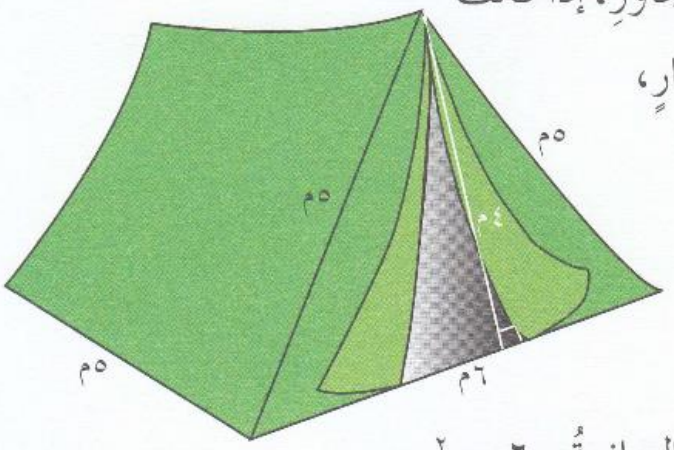
للمنشورِ الثلاثيِّ المجاورِ:

١) ارسمْ شبكةً للمنشورِ.

٢) احسبِ المساحةَ الكليةَ لسطحِ المنشورِ، ثمَّ تحققْ منْ صحةِ الحلِّ.



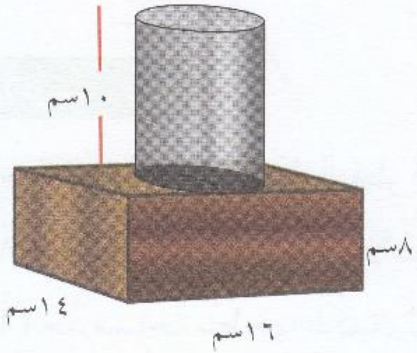
٥) ينتجُ مصنعٌ خيَمًا كما في الشكلِ المجاورِ، إذا كانتْ تكلفةُ المترِ المربعِ الواحدِ ١,٥ دينارٍ، جدْكلفةَ ٩ خيمٍ من النوعِ نفسِهِ.



٦) ارسمْ شبكةً لمنشورٍ ثلاثيٍّ مساحتُهُ الجانبيةُ ٦٠ سم^{٢}.

٧) ارسمْ شبكةً لمنشورٍ ثلاثيٍّ مساحتُهُ الكليةُ ٦٠ سم^{٢}.

جدْ حجمَ المجسمِ المركبِ في الشكلِ المجاورِ علمًا أنَّ طولَ قطرِ الأسطوانةِ يساوي عَرضَ متوازي المستطيلاتِ.



الحلُّ

حجمُ متوازي المستطيلاتِ (وَهُوَ منشورٌ رباعيٌّ)

$= ١٦ \times ١٤ \times ٨$

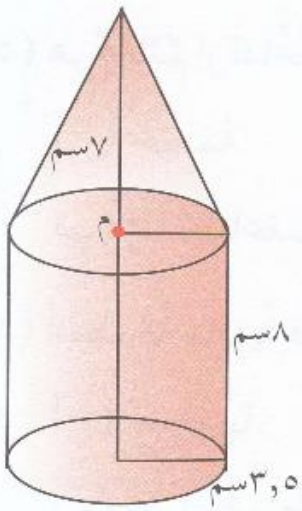
$= ١٧٩٢$ سم^{٣}.

قطرُ الأسطوانةِ $= ١٤$سم.

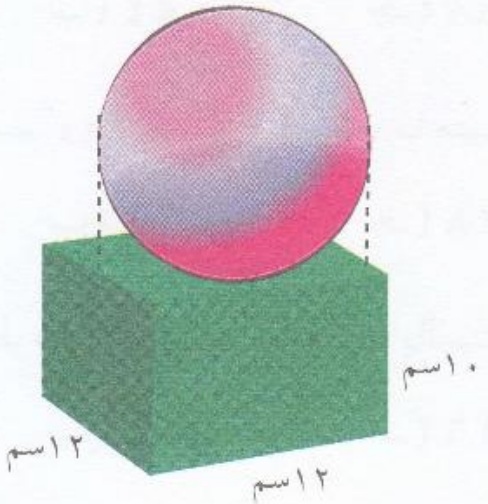
حجمُ الأسطوانةِ $= \pi$ نق^{٢} ع $\approx \frac{٢٢}{٧} \times (٧)^{٢} \times ١٠$

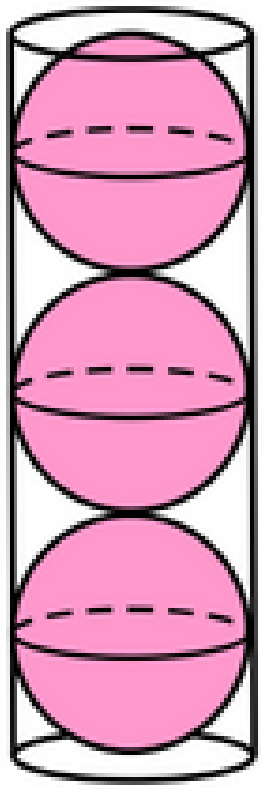
≈ ١٥٤٠سم^{٣}.

١٢) جدْ حجمَ المجسمِ المركبِ المرسومِ جانبًا.

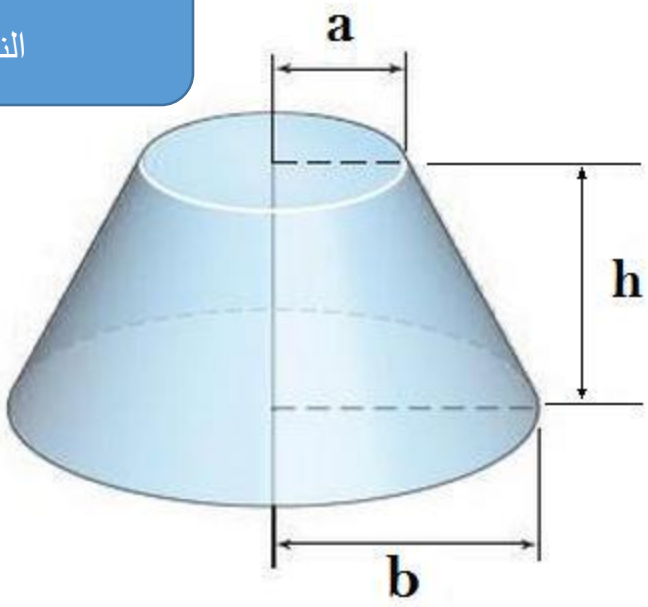


٦) جدْ حجمَ المجسمِ المركبِ المرسومِ أدناهُ.





احسب حجم المخروط الناقص



أيها أكبر في الحجم