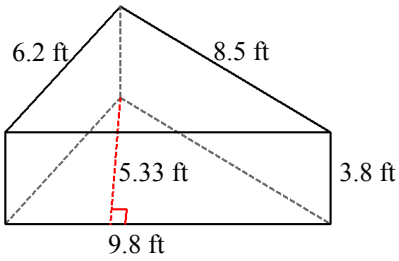
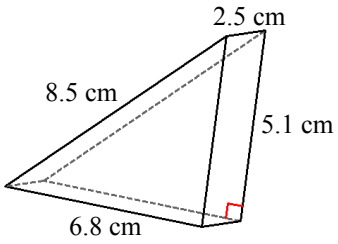
Volume and Surface Area of Triangular Prisms (A)

Instructions: Find the volume and surface area for each triangular prism.

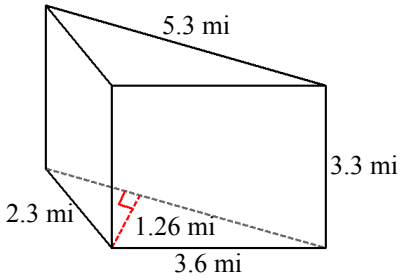
1)



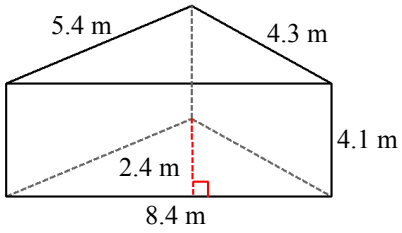
2)



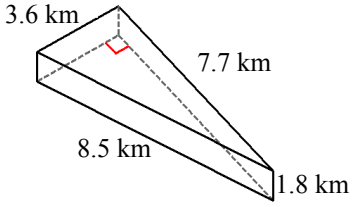
3)



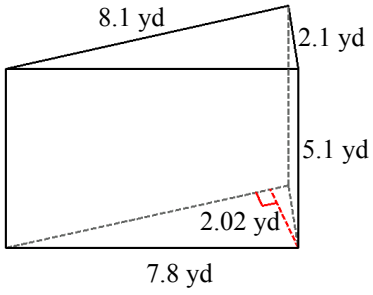
4)



5)



6)

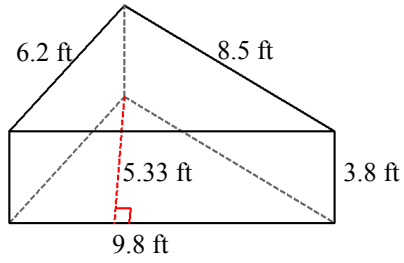


Volume and Surface Area of Triangular Prisms Answer (A)

Instructions: Find the volume and surface area for each triangular prism.

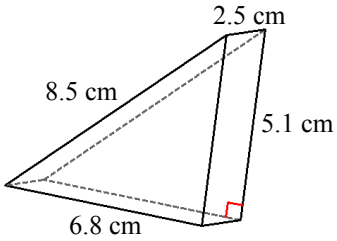
Formula: Volume (V) = 0.5 x *bhl*, Surface Area (A) = *bh*+(*s1*+*s2*+*s3*)*l*

1)



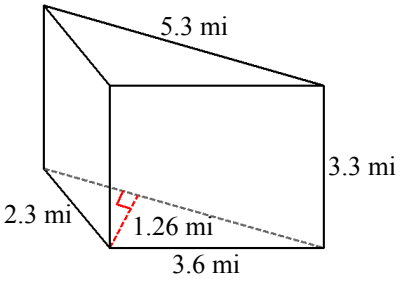
V = 0.5x9.8x5.33x3.8 = 99.2 ft^3
A = (9.8x5.33)+((9.8+6.2+8.5)x3.8) = 145.3 ft^2

2)



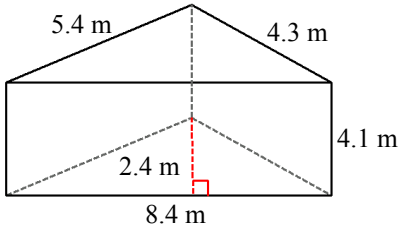
V = 0.5x6.8x5.1x2.5 = 43.4 cm^3
A = (6.8x5.1)+((6.8+5.1+8.5)x2.5) = 85.7 cm^2

3)



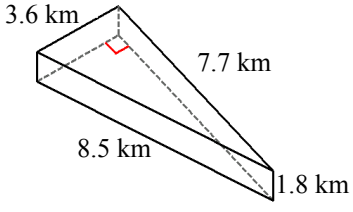
V = 0.5x5.3x1.26x3.3 = 11.0 mi^3
A = (5.3x1.26)+((5.3+3.6+2.3)x3.3) = 43.6 mi^2

4)



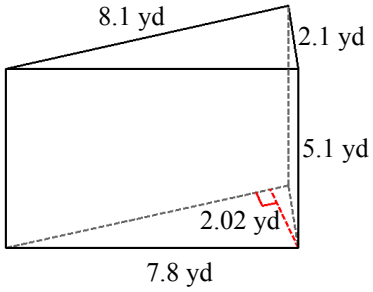
V = 0.5x8.4x2.40x4.1 = 41.3 m^3
A = (8.4x2.40)+((8.4+5.4+4.3)x4.1) = 94.4 m^2

5)



V = 0.5x3.6x7.7x1.8 = 24.9 km^3
A = (3.6x7.7)+((3.6+7.7+8.5)x1.8) = 63.4 km^2

6)

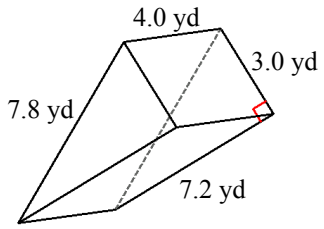


V = 0.5x8.1x2.02x5.1 = 41.7 yd^3
A = (8.1x2.02)+((8.1+2.1+7.8)x5.1) = 108.2 yd^2

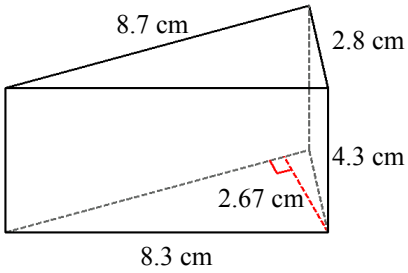
Volume and Surface Area of Triangular Prisms (B)

Instructions: Find the volume and surface area for each triangular prism.

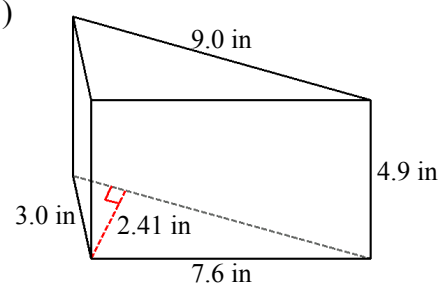
1)



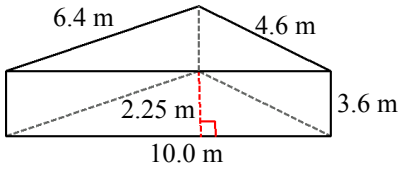
2)



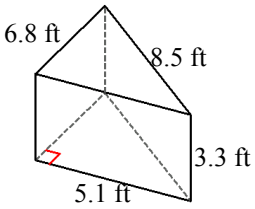
3)



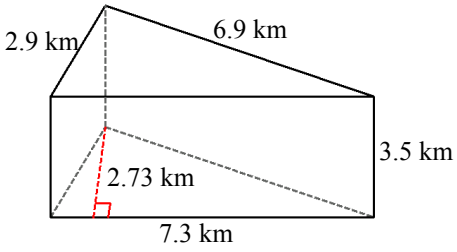
4)



5)



6)

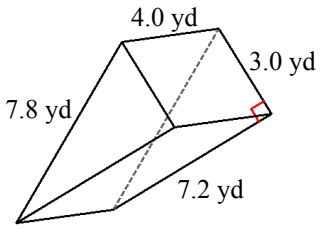


Volume and Surface Area of Triangular Prisms Answer (B)

Instructions: Find the volume and surface area for each triangular prism.

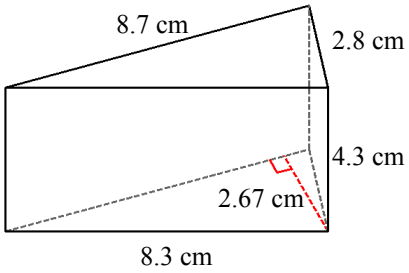
Formula: Volume (V) = 0.5 x *bhl*, Surface Area (A) = *bh*+(*s1*+*s2*+*s3*)*l*

1)



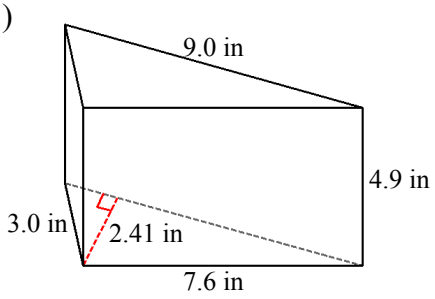
V = 0.5x7.2x3.0x4.0 = 43.2 yd^3
A = (7.2x3.0)+((7.2+3.0+7.8)x4.0) = 93.6 yd^2

2)



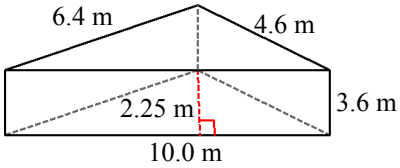
V = 0.5x8.7x2.67x4.3 = 49.9 cm^3
A = (8.7x2.67)+((8.7+2.8+8.3)x4.3) = 108.4 cm^2

3)



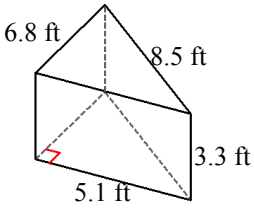
V = 0.5x9.0x2.41x4.9 = 53.1 in^3
A = (9.0x2.41)+((9.0+7.6+3.0)x4.9) = 117.7 in^2

4)



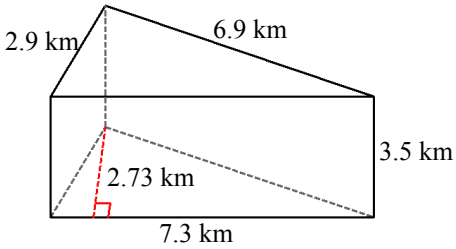
V = 0.5x10.0x2.25x3.6 = 40.5 m^3
A = (10.0x2.25)+((10.0+6.4+4.6)x3.6) = 98.1 m^2

5)



V = 0.5x5.1x6.8x3.3 = 57.2 ft^3
A = (5.1x6.8)+((5.1+6.8+8.5)x3.3) = 102.0 ft^2

6)

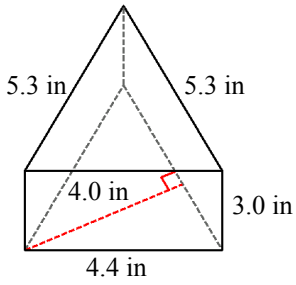


V = 0.5x7.3x2.73x3.5 = 34.9 km^3
A = (7.3x2.73)+((7.3+2.9+6.9)x3.5) = 79.8 km^2

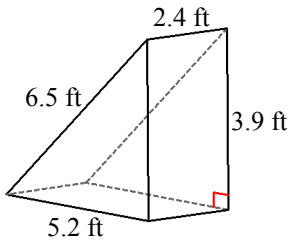
Volume and Surface Area of Triangular Prisms (C)

Instructions: Find the volume and surface area for each triangular prism.

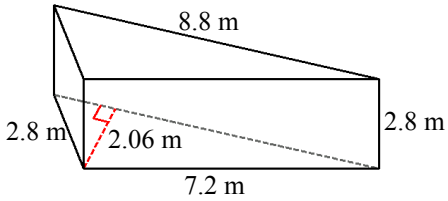
1)



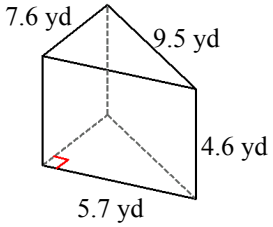
2)



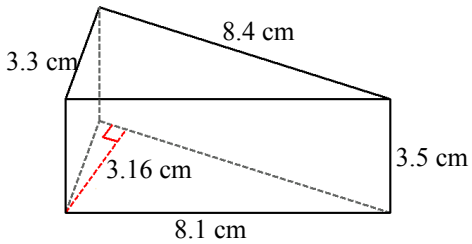
3)



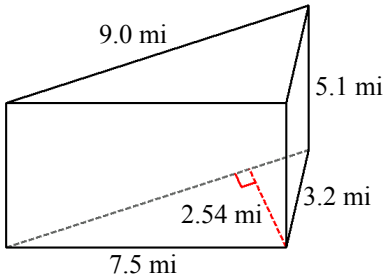
4)



5)



6)

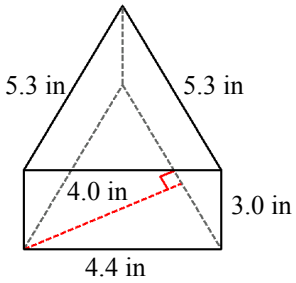


Volume and Surface Area of Triangular Prisms Answer (C)

Instructions: Find the volume and surface area for each triangular prism.

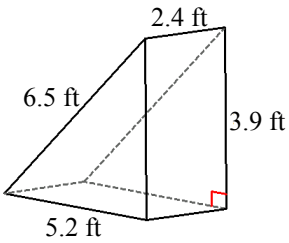
Formula: Volume (V) = 0.5 x *bhl*, Surface Area (A) = *bh*+(*s1*+*s2*+*s3*)*l*

1)



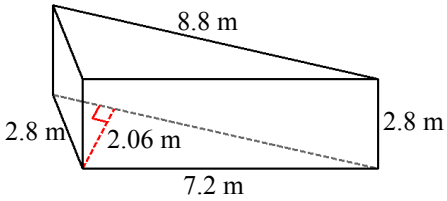
V = 0.5x5.3x4.0x3.0 = 31.8 in^3
A = (5.3x4.0)+((5.3+5.3+4.4)x3.0) = 66.2 in^2

2)



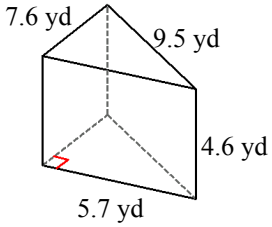
V = 0.5x5.2x3.9x2.4 = 24.3 ft^3
A = (5.2x3.9)+((5.2+3.9+6.5)x2.4) = 57.7 ft^2

3)



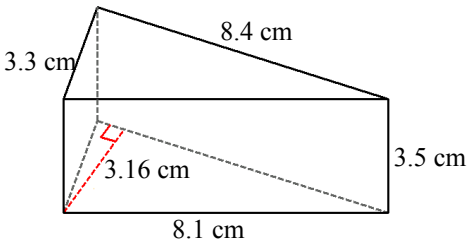
V = 0.5x8.8x2.06x2.8 = 25.4 m^3
A = (8.8x2.06)+((8.8+2.8+7.2)x2.8) = 70.8 m^2

4)



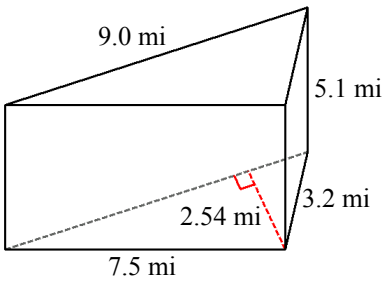
V = 0.5x5.7x7.6x4.6 = 99.6 yd^3
A = (5.7x7.6)+((5.7+7.6+9.5)x4.6) = 148.2 yd^2

5)



V = 0.5x8.4x3.16x3.5 = 46.5 cm^3
A = (8.4x3.16)+((8.4+8.1+3.3)x3.5) = 95.8 cm^2

6)

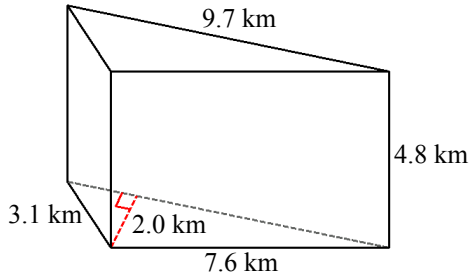


V = 0.5x9.0x2.54x5.1 = 58.3 mi^3
A = (9.0x2.54)+((9.0+3.2+7.5)x5.1) = 123.3 mi^2

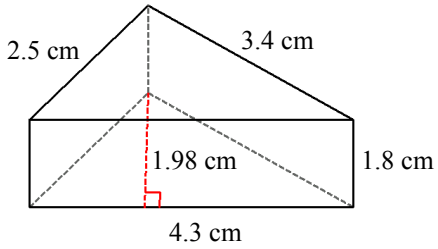
Volume and Surface Area of Triangular Prisms (D)

Instructions: Find the volume and surface area for each triangular prism.

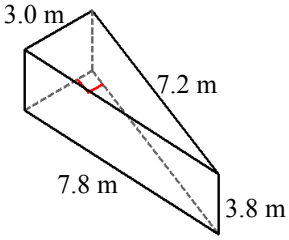
1)



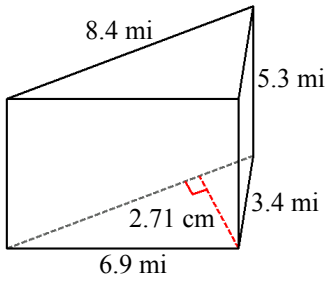
2)



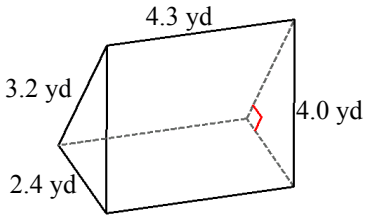
3)



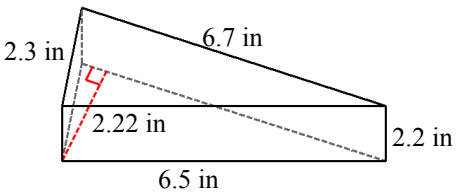
4)



5)



6)

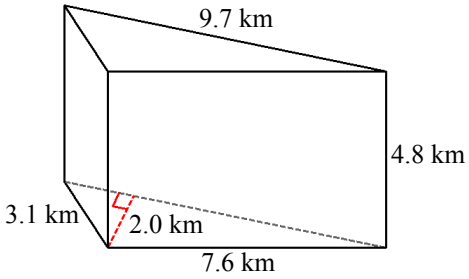


Volume and Surface Area of Triangular Prisms Answer (D)

Instructions: Find the volume and surface area for each triangular prism.

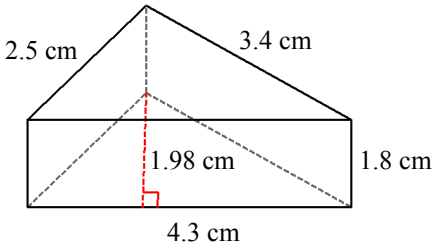
Formula: Volume (V) = 0.5 x *bhl*, Surface Area (A) = *bh*+(*s1*+*s2*+*s3*)*l*

1)



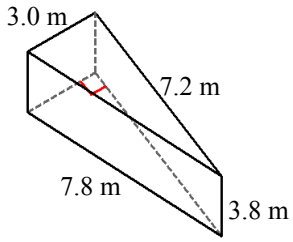
V = 0.5x9.7x2.00x4.8 = 46.6 km^3
A = (9.7x2.00)+((9.7+3.1+7.6)x4.8) = 117.3 km^2

2)



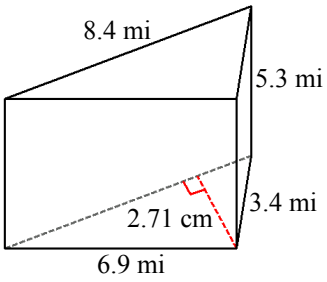
V = 0.5x4.3x1.98x1.8 = 7.7 cm^3
A = (4.3x1.98)+((4.3+2.5+3.4)x1.8) = 26.9 cm^2

3)



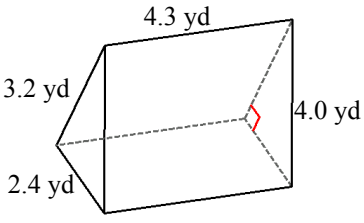
V = 0.5x3.0x7.2x3.8 = 41.0 m^3
A = (3.0x7.2)+((3.0+7.2+7.8)x3.8) = 90.0 m^2

4)



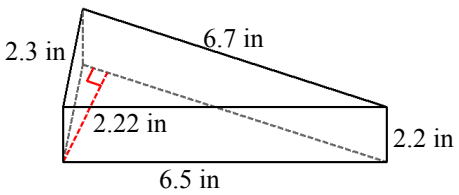
V = 0.5x8.4x2.71x5.3 = 60.3 mi^3
A = (8.4x2.71)+((8.4+3.4+6.9)x5.3) = 121.9 mi^2

5)



V = 0.5x2.4x3.2x4.3 = 16.5 yd^3
A = (2.4x3.2)+((2.4+3.2+4.0)x4.3) = 49.0 yd^2

6)

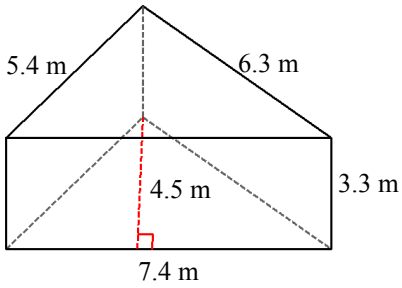


V = 0.5x6.7x2.22x2.2 = 16.4 in^3
A = (6.7x2.22)+((6.7+2.3+6.5)x2.2) = 49.0 in^2

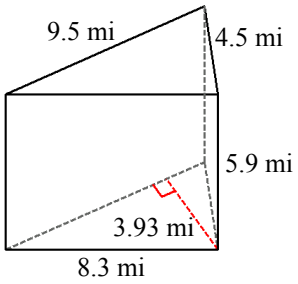
Volume and Surface Area of Triangular Prisms (E)

Instructions: Find the volume and surface area for each triangular prism.

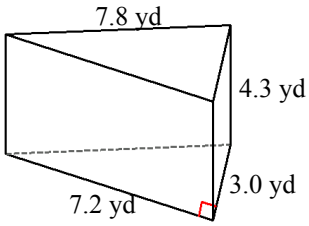
1)



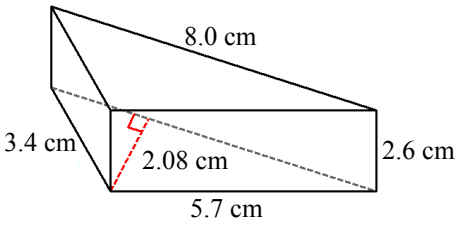
2)



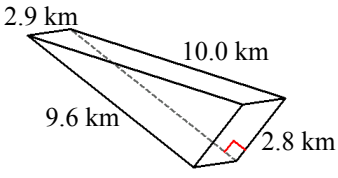
3)



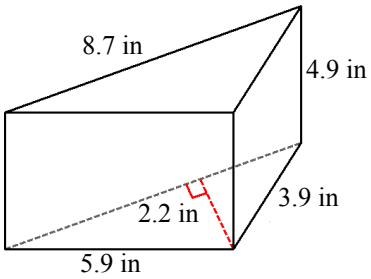
4)



5)



6)

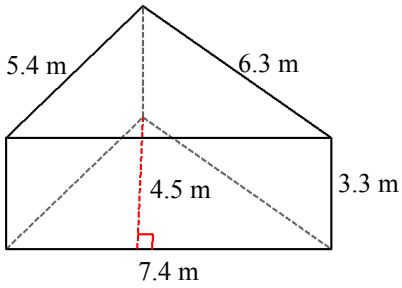


Volume and Surface Area of Triangular Prisms Answer (E)

Instructions: Find the volume and surface area for each triangular prism.

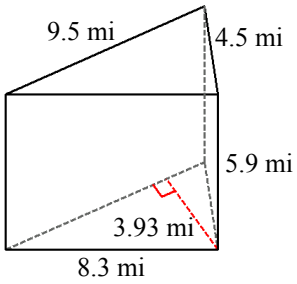
Formula: Volume (V) = 0.5 x *bhl*, Surface Area (A) = *bh*+(*s1*+*s2*+*s3*)*l*

1)



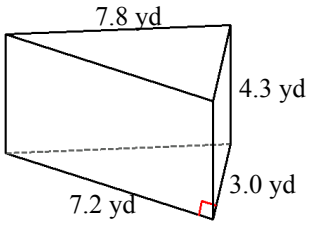
V = 0.5x7.4x4.50x3.3 = 54.9 m^3
A = (7.4x4.50)+((7.4+5.4+6.3)x3.3) = 96.3 m^2

2)



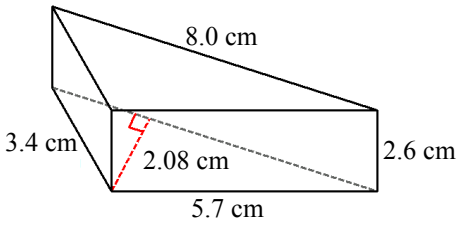
V = 0.5x9.5x3.93x5.9 = 110.1 mi^3
A = (9.5x3.93)+((9.5+4.5+8.3)x5.9) = 168.9 mi^2

3)



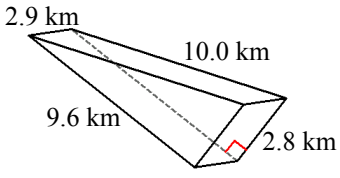
V = 0.5x3.0x7.2x4.3 = 46.4 yd^3
A = (3.0x7.0)+((3.0+7.2+7.8)x4.3) = 99.0 yd^2

4)



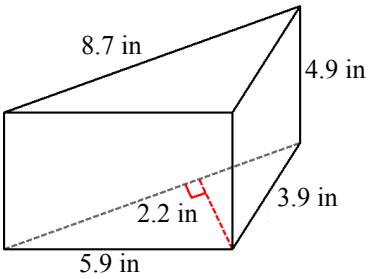
V = 0.5x8.0x2.08x2.6 = 21.6 cm^3
A = (8.0x2.08)+((8.0+3.4+5.7)x2.6) = 61.1 cm^2

5)



V = 0.5x2.8x9.6x2.9 = 39.0 km^3
A = (2.8x9.6)+((2.8+9.6+10.0)x2.9) = 91.8 km^2

6)

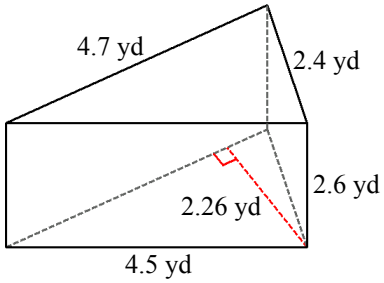


V = 0.5x8.7x2.20x4.9 = 46.9 in^3
A = (8.7x2.20)+((8.7+3.9+5.9)x4.9) = 109.8 in^2

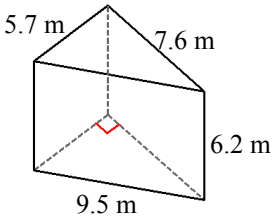
Volume and Surface Area of Triangular Prisms (F)

Instructions: Find the volume and surface area for each triangular prism.

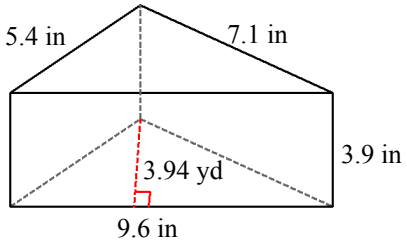
1)



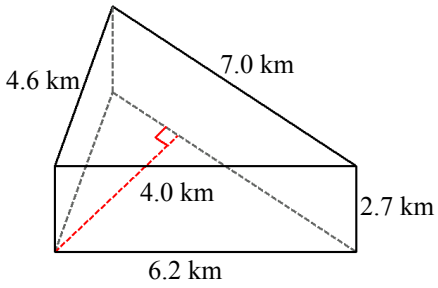
2)



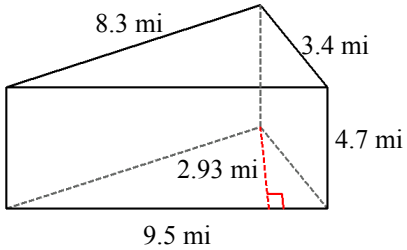
3)



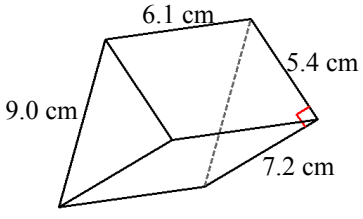
4)



5)



6)

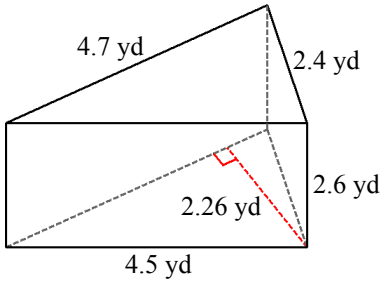


Volume and Surface Area of Triangular Prisms Answer (F)

Instructions: Find the volume and surface area for each triangular prism.

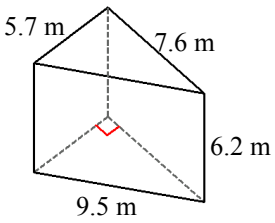
Formula: Volume (V) = 0.5 x *bhl*, Surface Area (A) = *bh*+(*s1*+*s2*+*s3*)*l*

1)



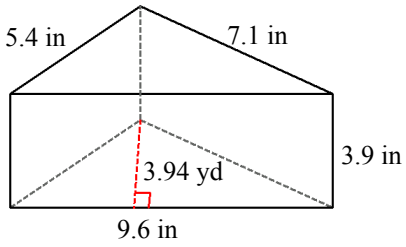
V = 0.5x4.7x2.26x2.6 = 13.8 yd^3
A = (4.7x2.26)+((4.7+4.5+2.4)x2.6) = 40.8 yd^2

2)



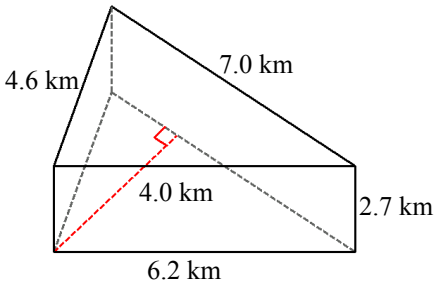
V = 0.5x5.7x7.6x6.2 = 134.3 m^3
A = (5.7x7.6)+((5.7+7.6+9.5)x6.2) = 184.7 m^2

3)



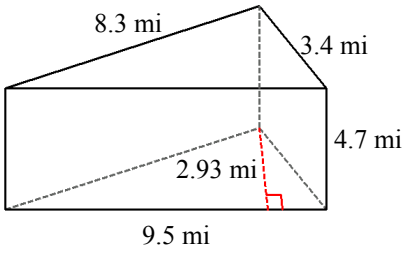
V = 0.5x9.6x3.94x3.9 = 73.8 in^3
A = (9.6x3.94)+((9.6+5.4+7.1)x3.9) = 124.0 in^2

4)



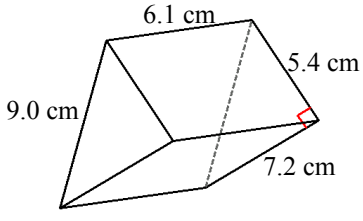
V = 0.5x7.0x4.00x2.7 = 37.8 km^3
A = (7.0x4.00)+((7.0+4.6+6.2)x2.7) = 76.1 km^2

5)



V = 0.5x9.5x2.93x4.7 = 65.4 mi^3
A = (9.5x2.93)+((9.5+3.4+8.3)x4.7) = 127.5 mi^2

6)

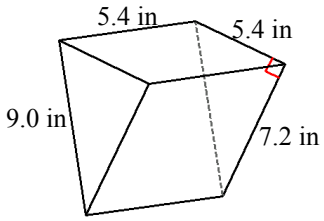


V = 0.5x7.2x5.4x6.1 = 118.6 cm^3
A = (7.2x5.4)+((7.2+5.4+9.0)x6.1) = 170.6 cm^2

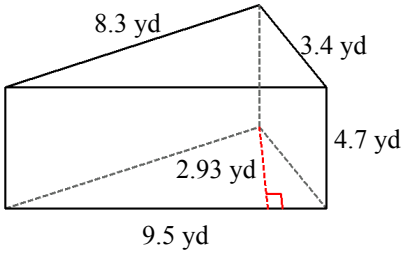
Volume and Surface Area of Triangular Prisms (G)

Instructions: Find the volume and surface area for each triangular prism.

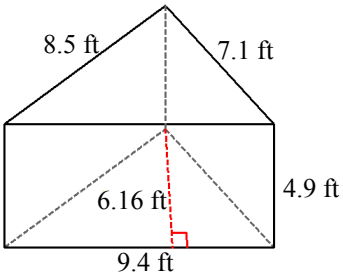
1)



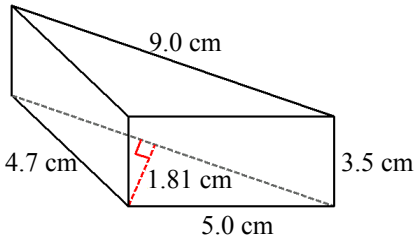
2)



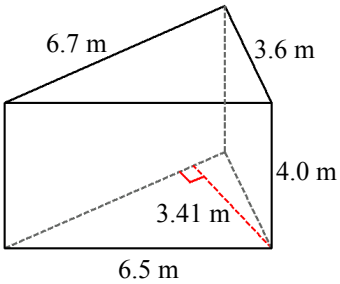
3)



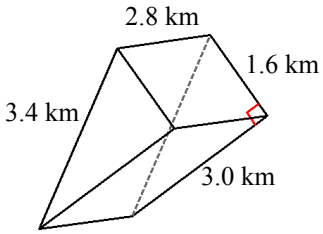
4)



5)



6)

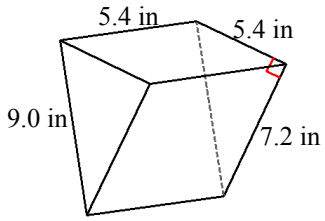


Volume and Surface Area of Triangular Prisms Answer (G)

Instructions: Find the volume and surface area for each triangular prism.

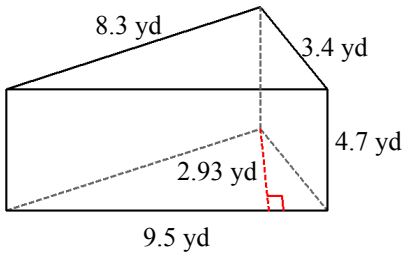
Formula: Volume (V) = 0.5 x *bhl*, Surface Area (A) = *bh*+(*s1*+*s2*+*s3*)*l*

1)



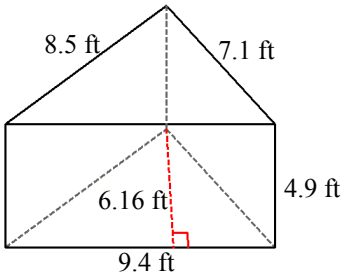
V = 0.5x7.2x5.4x5.4 = 105.0 in^3
A = (7.2x5.4)+((7.2+5.4+9.0)x5.4) = 155.5 in^2

2)



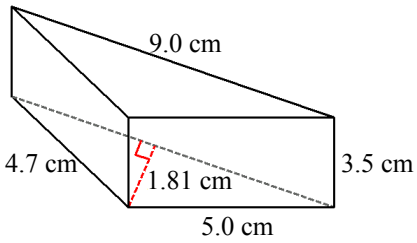
V = 0.5x9.5x2.93x4.7 = 65.4 yd^3
A = (9.5x2.93)+((9.5+8.3+3.4)x4.7) = 127.5 yd^2

3)



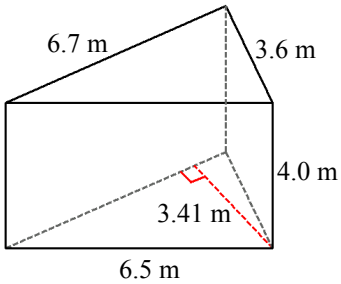
V = 0.5x9.4x6.16x4.9 = 141.9 ft^3
A = (9.4x6.16)+((9.4+7.1+8.5)x4.9) = 180.4 ft^2

4)



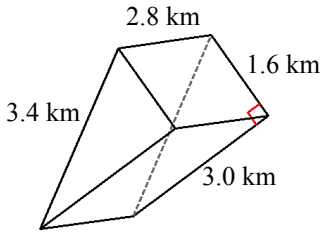
V = 0.5x9.0x1.81x3.5 = 28.5 cm^3
A = (9.0x1.81)+((9.0+4.7+5.0)x3.5) = 81.7 cm^2

5)



V = 0.5x6.7x3.41x4.0 = 45.7 m^3
A = (6.7x3.41)+((6.7+6.5+3.6)x4.0) = 90.0 m^2

6)

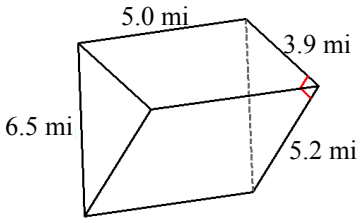


V = 0.5x3.0x1.6x2.8 = 6.7 km^3
A = (3.0x1.6)+((3.0+1.6+3.4)x2.8) = 27.2 km^2

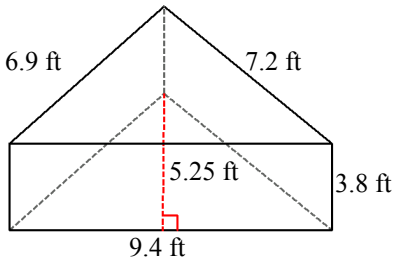
Volume and Surface Area of Triangular Prisms (H)

Instructions: Find the volume and surface area for each triangular prism.

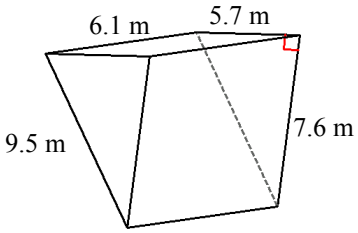
1)



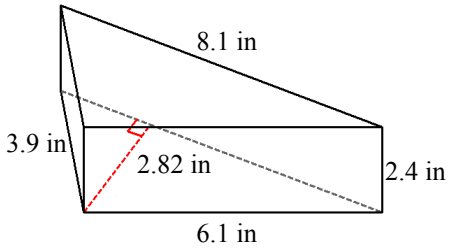
2)



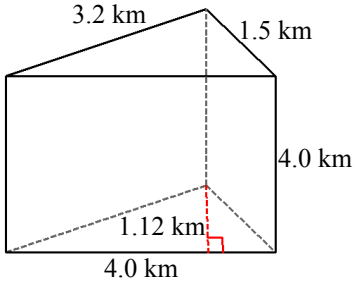
3)



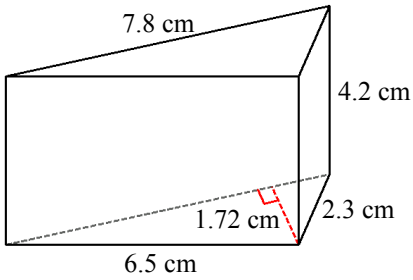
4)



5)



6)

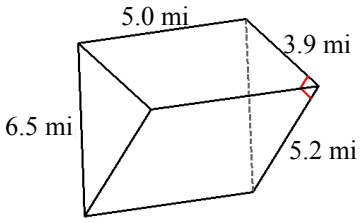


Volume and Surface Area of Triangular Prisms Answer (H)

Instructions: Find the volume and surface area for each triangular prism.

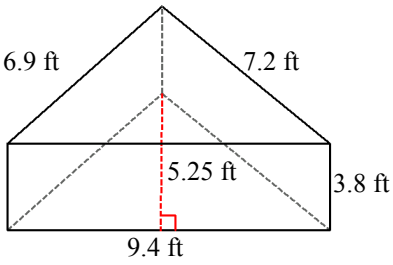
Formula: Volume (V) = 0.5 x *bhl*, Surface Area (A) = *bh*+(*s1*+*s2*+*s3*)*l*

1)



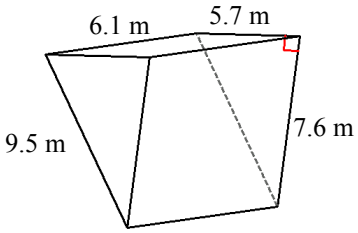
V = 0.5x5.2x3.9x5.0 = 50.7 mi^3
A = (5.2x3.9)+((5.2+3.9+6.5)x5.0) = 98.3 mi^2

2)



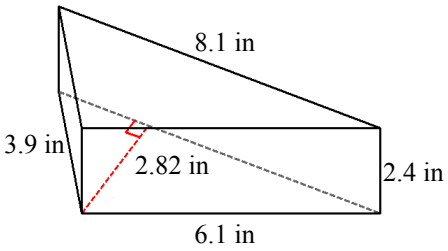
V = 0.5x9.4x5.25x3.8 = 93.8 ft^3
A = (9.4x5.25)+((9.4+6.9+7.2)x3.8) = 138.7 ft^2

3)



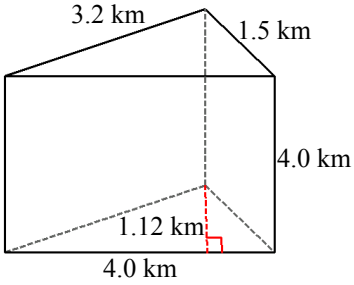
V = 0.5x7.6x5.7x6.1 = 132.1 $m3^3$
A = (7.6x5.7)+((7.6+5.7+9.5)x6.1) = 182.4 m^2

4)



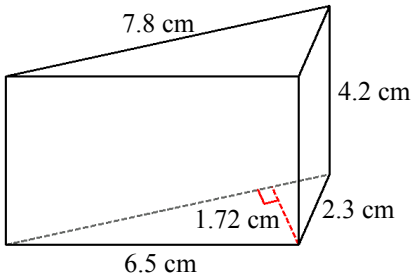
V = 0.5x8.1x2.82x2.4 = 27.4 in^3
A = (8.1x2.82)+((8.1+3.9+6.1)x2.4) = 66.3 in^2

5)



V = 0.5x4.0x1.12x4.0 = 9.0 km^3
A = (4.0x1.12)+((4.0+1.5+3.2)x4.0) = 39.3 km^2

6)

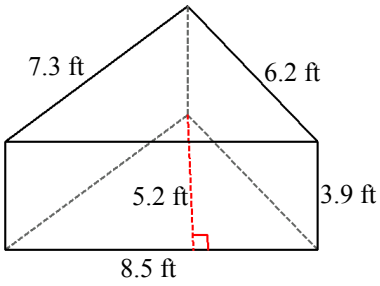


V = 0.5x7.8x1.72x4.2 = 28.2 cm^3
A = (7.8x1.72)+((7.8+6.5+2.3)x4.2) = 83.1 cm^2

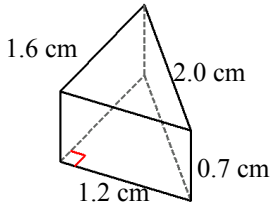
Volume and Surface Area of Triangular Prisms (I)

Instructions: Find the volume and surface area for each triangular prism.

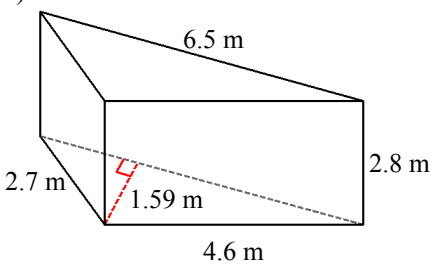
1)



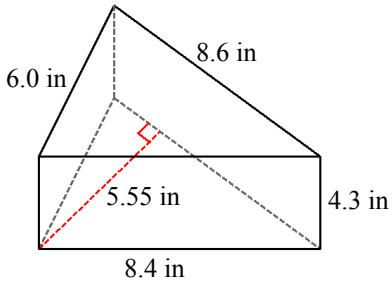
2)



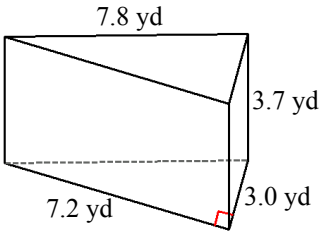
3)



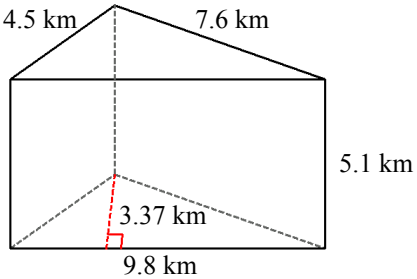
4)



5)



6)

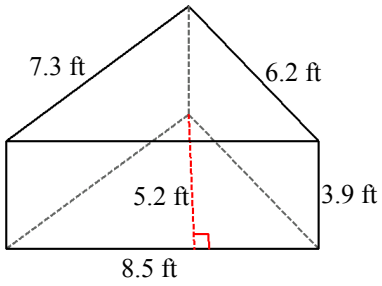


Volume and Surface Area of Triangular Prisms Answer (I)

Instructions: Find the volume and surface area for each triangular prism.

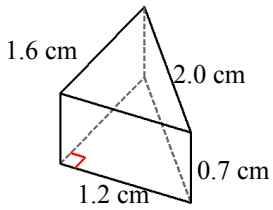
Formula: Volume (V) = 0.5 x *bhl*, Surface Area (A) = *bh*+(*s1*+*s2*+*s3*)*l*

1)



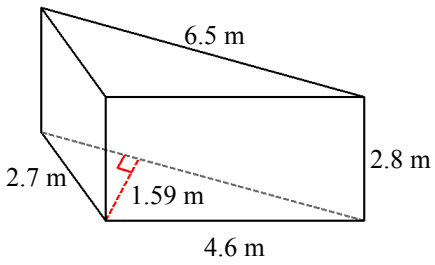
V = 0.5x8.5x5.20x3.9 = 86.2 ft^3
A = (8.5x5.20)+((8.5+7.3+6.2)x3.9) = 130.0 ft^2

2)



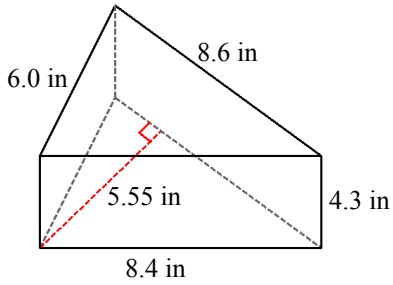
V = 0.5x1.2x1.6x0.7 = 0.7 cm^3
A = (1.2x1.6)+((1.2+1.6+2.0)x0.7) = 5.3 cm^2

3)



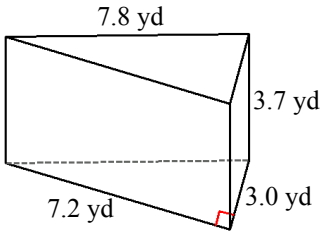
V = 0.5x6.5x1.59x2.8 = 14.5 m^3
A = (6.5x1.59)+((6.5+2.7+4.6)x2.8) = 49.0 m^2

4)



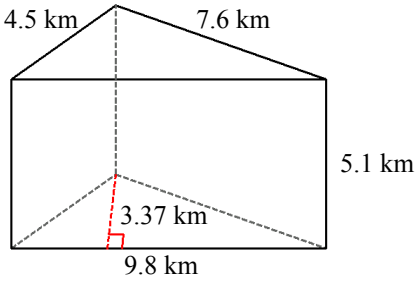
V = 0.5x8.6x5.55x4.3 = 102.6 in^3
A = (8.6x5.55)+((8.6+8.4+6.0)x4.3) = 146.6 in^2

5)



V = 0.5x7.2x3.0x3.7 = 40.0 yd^3
A = (7.2x3.0)+((7.2+3.0+7.8)x3.7) = 88.2 yd^2

6)

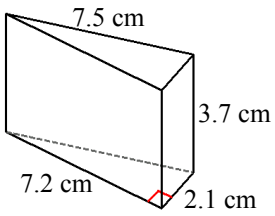


V = 0.5x9.8x3.37x5.1 = 84.2 km^3
A = (9.8x3.37)+((9.8+4.5+7.6)x5.1) = 144.7 km^2

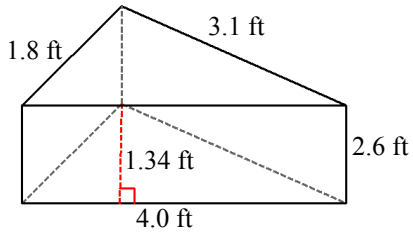
Volume and Surface Area of Triangular Prisms (J)

Instructions: Find the volume and surface area for each triangular prism.

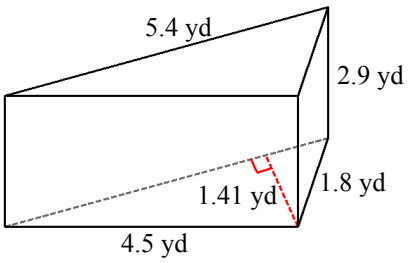
1)



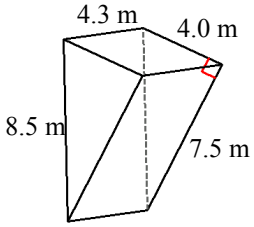
2)



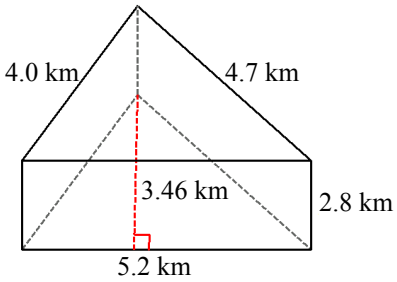
3)



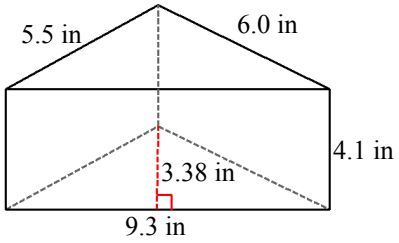
4)



5)



6)

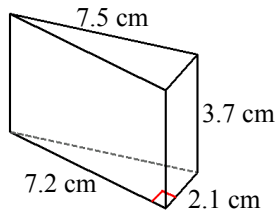


Volume and Surface Area of Triangular Prisms Answer (J)

Instructions: Find the volume and surface area for each triangular prism.

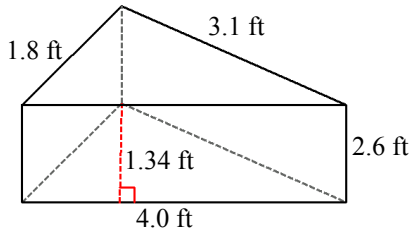
Formula: Volume (V) = 0.5 x *bhl*, Surface Area (A) = *bh*+(*s1*+*s2*+*s3*)*l*

1)



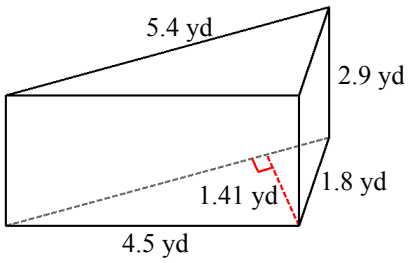
V = 0.5x2.1x7.2x3.7 = 28.0 cm^3
A = (2.1x7.2)+((2.1+7.2+7.5)x3.7) = 77.3 cm^2

2)



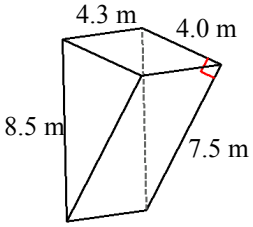
V = 0.5x4.0x1.34x2.6 = 7.0 ft^3
A = (4.0x1.34)+((4.0+1.8+3.1)x2.6) = 28.5 ft^2

3)



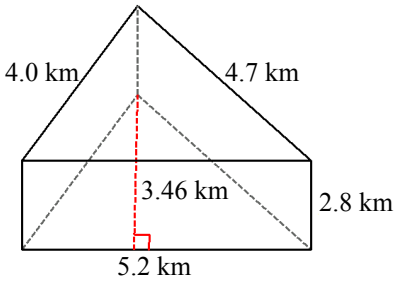
V = 0.5x5.4x1.41x2.9 = 11.0 yd^3
A = (5.4x1.41)+((5.4+4.5+1.8)x2.9) = 41.5 yd^2

4)



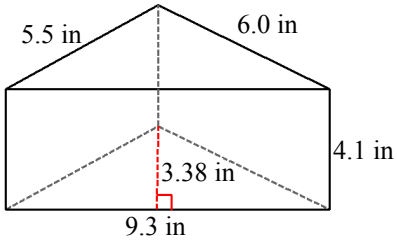
V = 0.5x7.5x4.0x4.3 = 64.5 m^3
A = (7.5x4.0)+((7.5+4.0+8.5)x4.3) = 116.0 m^2

5)



V = 0.5x5.2x3.46x2.8 = 25.2 km^3
A = (5.2x3.46)+((5.2+4.0+4.7)x2.8) = 56.9 km^2

6)



V = 0.5x9.3x3.38x4.1 = 64.4 in^3
A = (9.3x3.38)+((9.3+5.5+6.0)x4.1) = 116.7 in^2