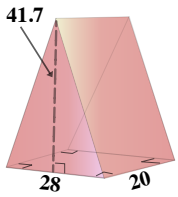
Geometry Problems

Volume and Surface Area of Simple 3D Shapes
Pyramids and Triangular Prisms
Math Worksheet 48

Name: _____

Answer the following. Show your solutions.

Find the volume of this solid. Dimensions are in inches.

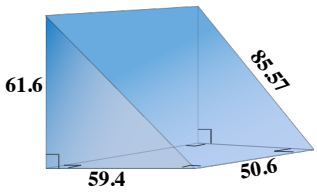


B = ½ bh
= ½ 28(41.7)
= 583.8

V = Bl
= 583.8 (20)
= 11676

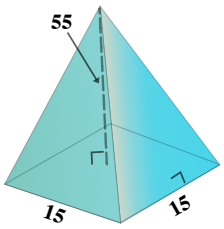
11676 in³
Volume

Solve for the surface area of the figure below. Dimensions are in centimeters.



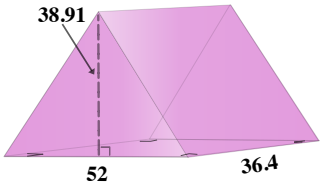
Surface Area

What is the volume of this rectangular prism? Dimensions are in meters.



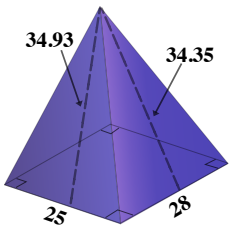
Volume

Find the volume of the solid below. Dimensions are in millimeters.



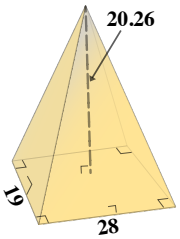
Volume

Solve for the surface area of the rectangular box below. Dimensions are in meters.



Surface Area

Calculate the volume of this rectangular solid. Dimensions are in yards.



Volume

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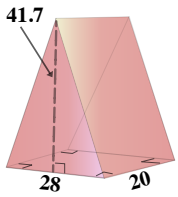
Geometry Problems
Volume and Surface Area of Simple 3D Shapes
Pyramids and Triangular Prisms
Math Worksheet 48

Name: **ANSWER KEY**

Answer the following. Show your solutions.

Find the volume of this solid. Dimensions are in inches.

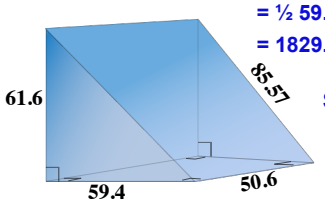


B = ½ bh
= ½ 28(41.7)
= 583.8

V = Bl
= 583.8 (20)
= 11676

11676 in³
Volume

Solve for the surface area of the figure below. Dimensions are in centimeters.



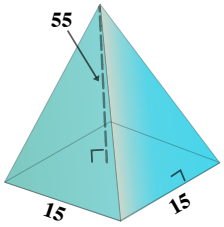
B = ½ bh
= ½ 59.4(61.6)
= 1829.52

P = a+b+c
= 61.6+59.4+85.57
= 206.57

S = 2B + Pl
= 2(1829.52) + 206.57(50.6)
= 3658 + 10452.44
= 14110.44

14110.44 cm²
Surface Area

What is the volume of this rectangular prism? Dimensions are in meters.

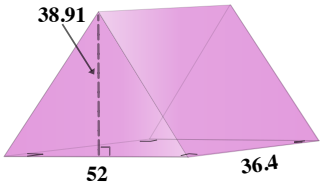


B = l x w
= 15 x 15
= 225

V = ⅓ Bh
= ⅓ 225(55)
= 4125

4125 m³
Volume

Find the volume of the solid below. Dimensions are in millimeters.

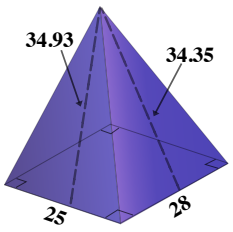


B = ½ bh
= ½ 52(38.91)
= 1011.66

V = Bl
= 1011.66 (36.4)
= 36824.42

36824.42 mm³
Volume

Solve for the surface area of the rectangular box below. Dimensions are in meters.



B = l x w
= 25 x 28
= 700

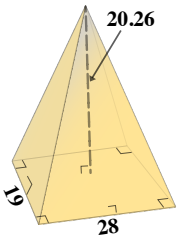
$L_1 = L_3$ = ½ bh
= ½ 25(34.93)
= 436.63

$L_2 = L_4$ = ½ bh
= ½ 28(34.35)
= 480.90

S = B + L_1 + L_2 + L_3 + L_4
= 700+436.63+480.90+436.63+480.90
= 2532.34

2535.06 m²
Surface Area

Calculate the volume of this rectangular solid. Dimensions are in yards.



B = l x w
= 19 x 28
= 532

V = ⅓ Bh
= ⅓ 532(20.26)
= 3592.77

3592.77 yd³
Volume

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