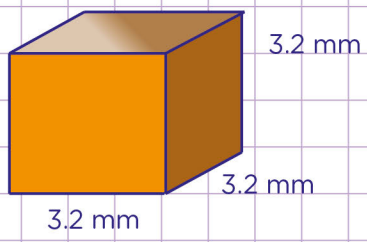
Name: ..... Class: .....

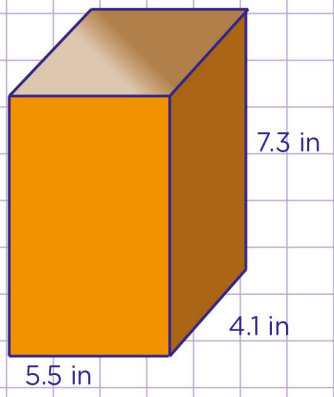
Volume of cubes and rectanglar prisms with decimal side lengths

Find the volume of the figures below (round your answer to the nearest tenth).

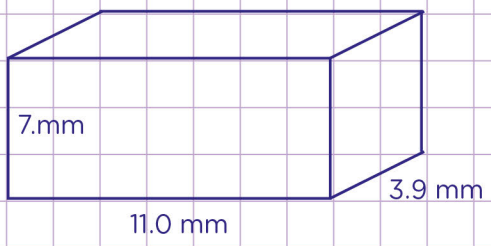
1.



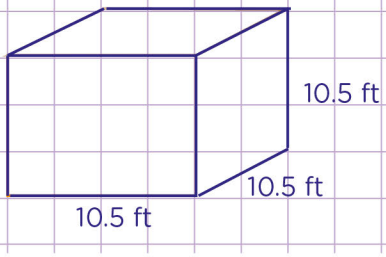
2.



3.



4.



Solution

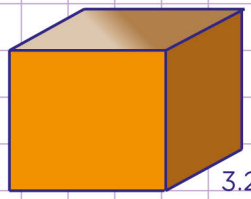
mathskills4kids

Name: ..... Class: .....

Volume of cubes and rectanglar prisms with decimal side lengths

Find the volume of the figures below (round your answer to the nearest tenth).

1.



We know that, volume of a cube = length x width x height

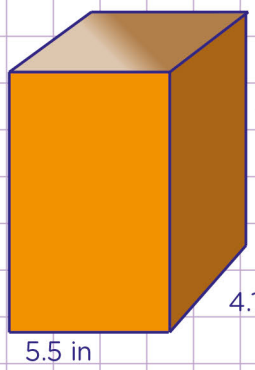
From our figure,

length = 3.2mm, width = 3.2mm, height = 3.2mm

So, volume = 3.2 mm x 3.2 mm x 3.2 mm = 32.768mm^2

32.768mm^2 to the nearest tenth is 32.8mm^2

2.



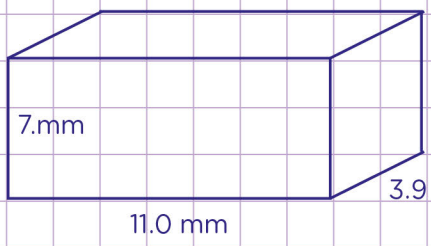
We know that, volume of a rectangular prism = length x width x height

From our figure,

So, volume = 5.5 in x 4.1 in x 7.3 in = 164.615 in^3

164.615 in^3 to the nearest tenth is 164.6 in^3

3.



We know that,

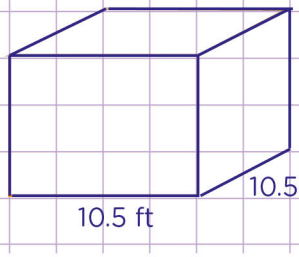
volume of a rectangular prism = length x width x height

From our figure,

So, volume = 11.0 mm x 3.9 mm x 7 mm = 300.3mm^3

300.3mm^3 to the nearest tenth is 300.3mm^3

4.



We know that, volume of a cube = length x width x height

From our figure,

So, volume = 10.5 ft x 10.5 ft x 10.5 ft = 1,157.625ft^3

1,157.625ft^3 to the nearest tenth is 1,157.6ft^3