

Grade 7/8 Math Measurement – Conversion of Units 1

Name: _____ Class: _____

We have been working on converting units. There are some common conversion factors. Some should be becoming familiar to you if you are doing the work assigned in class.

Units	To units	Linear Conversion factor	Square Conversion Factor	Cubic Conversion Factor
Centimetres	Inches	2.54 cm/in	6.4516 cm ² /in ²	16.3871 cm ³ /in ³
Yard	Metre	0.9144 m/yd	0.8361 m ² /yd ²	0.7646 m ³ /yd ³
Inches	Feet	12 in/ft	144 in ² /ft ²	1728 in ³ /ft ³
Feet	Yard	3 ft/yd	9 ft ² /yd ²	27 ft ³ /yd ³
Feet	Metre	0.3048 m /ft	0.0929 m ² /ft ²	0.02832 m ³ /ft ³

Use these to find the number of units after conversion. Round to one decimal place.

12 inches is	30.5 centimeters	Conversion factor? _____ 2.54 _____ Mult or Div?
100 cm is	39.4 inches	Conversion factor? _____ 2.54 _____ Mult or Div?
24.689 m is	27 yards	Conversion factor? _____ 0.9144 _____ Mult or Div?
59.055 yd is	54 metres	Conversion factor? _____ 0.9144 _____ Mult or Div?
72 inches is	6 feet	Conversion factor? _____ 12 _____ Mult or Div?
8 feet is	96 inches	Conversion factor? _____ 12 _____ Mult or Div?
144 in ² is	1 ft ²	Conversion factor? _____ 144 _____ Mult or Div?
7.75 in ² is	50 cm ²	Conversion factor? _____ 6.4516 _____ Mult or Div?
83.61 m ² is	100 yd ²	Conversion factor? _____ 0.8361 _____ Mult or Div?
62.7075 m ² is	75 yd ²	Conversion factor? _____ 0.8361 _____ Mult or Div?
81 ft ² is	9 yd ²	Conversion factor? _____ 9 _____ Mult or Div?
409.6775 cm ³ is	25 in ³	Conversion factor? _____ 16.3871 _____ Mult or Div?
45.876 m ³ is	60 yd ³	Conversion factor? _____ 0.7646 _____ Mult or Div?
1.62038 ft ³ is	2800 in ³	Conversion factor? _____ 1728 _____ Mult or Div?
13120105 in ³ is	215 m ³	Conversion factor? 1728_and_0.02832_ Mult or Div?
54 ft ³ is	2 yd ³	Conversion factor? _____ 27 _____ Mult or Div?
7.62m is	25 ft	Conversion factor? _____ 0.3048 _____ Mult or Div?
37.16 m ²	400 ft ²	Conversion factor? _____ 0.0929 _____ Mult or Div?