

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.

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|-----------------------------|-----------------------|--------------------------|--------------|
| 12 inches is | _____ centimeters | Conversion factor? _____ | Mult or Div? |
| 100 cm is | _____ inches | Conversion factor? _____ | Mult or Div? |
| 24.689 m is | _____ yards | Conversion factor? _____ | Mult or Div? |
| 59.055 yd is | _____ metres | Conversion factor? _____ | Mult or Div? |
| 72 inches is | _____ feet | Conversion factor? _____ | Mult or Div? |
| 8 feet is | _____ inches | Conversion factor? _____ | Mult or Div? |
| 144 in ² is | _____ ft ² | Conversion factor? _____ | Mult or Div? |
| 7.75 in ² is | _____ cm ² | Conversion factor? _____ | Mult or Div? |
| 83.61 m ² is | _____ yd ² | Conversion factor? _____ | Mult or Div? |
| 62.7075 m ² is | _____ yd ² | Conversion factor? _____ | Mult or Div? |
| 81 ft ² is | _____ yd ² | Conversion factor? _____ | Mult or Div? |
| 409.6775 cm ³ is | _____ in ³ | Conversion factor? _____ | Mult or Div? |
| 45.876 m ³ is | _____ yd ³ | Conversion factor? _____ | Mult or Div? |
| 1.62038 ft ³ is | _____ in ³ | Conversion factor? _____ | Mult or Div? |
| 13120105 in ³ is | _____ m ³ | Conversion factor? _____ | Mult or Div? |
| 54 ft ³ is | _____ yd ³ | Conversion factor? _____ | Mult or Div? |
| 7.62m is | _____ ft | Conversion factor? _____ | Mult or Div? |
| 37.16 m ² | _____ ft ² | Conversion factor? _____ | Mult or Div? |