Scale drawing - answer key

Original worked answers / Keep separate from the student worksheet.

1. 12 m real length; find drawing length

   Drawing : real = 1 : 100. Give the answer in cm.

   12 x 1000 x 0.01 / 10 = 12 cm

2. 8 ft real length; find drawing length

   Drawing : real = 1 : 48. Give the answer in in.

   8 x 304.8 x 0.02083333333 / 25.4 = 2 in

3. 6 cm drawing length; find real length

   Drawing : real = 1 : 200. Give the answer in m.

   6 x 10 x 200 / 1000 = 12 m

4. 50 mm real length; find drawing length

   Drawing : real = 2 : 1. Give the answer in mm.

   50 x 1 x 2 / 1 = 100 mm

5. 3 in drawing length; find real length

   Drawing : real = 1 : 24. Give the answer in ft.

   3 x 25.4 x 24 / 304.8 = 6 ft

6. 7.5 m real length; find drawing length

   Drawing : real = 1 : 50. Give the answer in mm.

   7.5 x 1000 x 0.02 / 1 = 150 mm

Print at Actual size / 100%. Check the 100 mm bar before measuring.

100 mm

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