

3. What is the weight of water required to fill a cistern 90 centimetres long, 64 centimetres wide and 36 centimetres deep?

4. A litre of a certain gas weighs 1.675 grams. How much does a cubic metre weigh?

5. How many litres in a vessel whose capacity is $4\frac{1}{2}$ cubic metres?

6. How many cubic metres in a rectangular tank 125 cm. long, 80 cm. wide and 60 cm. deep? How many litres? What weight of water would be required to fill it?

7. How deep must a cistern be to hold 8000 litres, if the bottom is a square 2.5 metres on a side?

8. Find the weight of a bar of iron 50 centimetres long, 4 centimetres wide and 1 centimetre thick, if iron weighs 7.8 times as much as water.

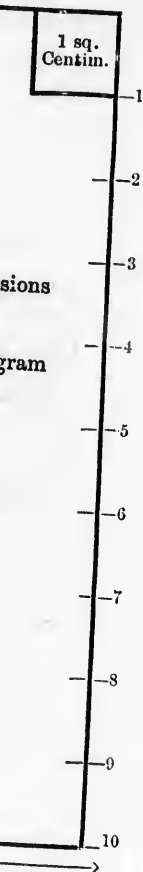
9. What is the weight in grams of $2\frac{1}{2}$ cubic metres of oil that weighs $\frac{9}{10}$ as much as water?

10. Find the weight in metric tons of the volume of water contained in a cistern 4.35 m. long, 3.64 m. wide and 2.85 m. deep, supposing the water to be at 4° Centigrade.

Change from the English to the metric system, or from the metric to the English system, using the equivalents given on p. 14:—

1. 35 yds. 2 ft. 9 in. to metres.
2. 3.75 metres to yds. ft. and inches.
3. 3 mi. 130 rods to Km. 4. 18.25 Km. to mi. and rods.
5. 6 lbs. 4 oz. to Kg. 6. 36,000 cg. to oz.
7. 356.121 kilograms to cwt. and lbs.
8. 4 sq. ft. 72 sq. in. to sq. m. 9. 45 sq. m. to sq. yds., etc.
10. 2 ac. 140 sq. rds. to Ha. 11. 3.5 Ha. to ac. and sq. rds.
12. 3 gal. 2 qts. 1 pt. to litres. 13. 36.7125 Hl. to gal.
14. 1800 gallons to cubic metres.
15. 47.875 cubic decimetres to gal. qts. pts.

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