

SOLUTIONS OF THE PROBLEMS

cm., and $\therefore$ weighs $1000000 \text{ g.} = 1000 \text{ Kg.}$; $\therefore 1 \text{ Kl. of air}$
weighs $1000 \div 770 \text{ Kg.} = \&c.$

35. $1 \text{ l.} = 1 \text{ cu. dm.} = 1000 \text{ cu. cm.}$

36. $1 \text{ Kg.} = 1000 \text{ g.} = 1000 \times 1000 \text{ mg.}$

37. $1 \text{ tonneau} = 1000 \text{ Kg.} = 1000 \times 1000 \text{ g.}$

38. $10 \text{ cu. m. of water} = 10000000 \text{ cu. cm., and } \therefore$
weighs $10000000 \text{ g.} = 10000 \text{ Kg.}$

39. $1 \text{ l. of water weighs } 1 \text{ Kg.}$; $\therefore 1 \text{ l. of mercury weighs}$
 13.5 Kg.

40. $1 \text{ l. of water weighs } 1000 \text{ g.}$; $\therefore \text{ratio} = 1840 : 1000.$

41. $1 \text{ ton} = 2000 \text{ lb.} = 32000 \text{ oz.} = 32000 \times 28.35 \text{ g.} =$
 $32 \times 28.35 \text{ Kg.}$

42. $5 \text{ Km. per hour} = 500000 \text{ cm. per } 3600 \text{ sec.} = \&c.$

43. $1 \text{ ch.} = 66 \text{ ft.} = 66 \times 12 \div 39.37 \text{ m.} = \&c.$

44. $250 \text{ ac.} = 1568160000 \text{ sq. in.} = 1568160000 \div (39.37)^2$
 $\text{sq. m.} = 156816 \div (39.37)^2 \text{ Ha.} = \&c.$

45. $229 \text{ miles} = 229 \times 5280 \times 12 \text{ in.} = 229 \times 5280 \times 12 \div$
 $39.37 \text{ m.} = 229 \times 5280 \times 12 \div 39.37 \div 1000 \text{ Km.}$

46. $1 \text{ mile} = 5280 \text{ ft.} = 5280 \times 12 \text{ in.} = 5280 \times 12 \div 39.37 \text{ m.}$

47. $\therefore 8 \text{ Km.} = 5 \text{ miles}$; but $8 \text{ Km.} = 8000 \text{ m., and } 5$
 $\text{miles} = 316800 \text{ in. } \therefore 1 \text{ m.} = 316800 \div 8000 \text{ in.}$

48. $1 \text{ tonneau} = 1000 \text{ Kg.} = \text{the wt. of } 1000 \text{ l.}$