

IN THE HIGH SCHOOL ARITHMETIC

$$15. \text{ No. minutes} = 65 \text{ Km.} \div 80 \text{ m.} = 65000 \text{ m.} \div 80 \text{ m.} \\ = 812.5 = \&c.$$

$$16. 1 \text{ yd.} = 36 \text{ in.} = 36 \times \frac{5}{8} \text{ cm.} = 36 \times \frac{5}{8} \times 10 \text{ mm.}$$

$$17. 1 \text{ Km.} \div 1 \text{ m.} = 1000000 \text{ mm.} \div 1050 \text{ mm.}$$

$$18. 1200 \div 100; 1200 \times 100; 1200 \div 10.$$

19. These expressed as ares are 12.64, 4.68, 1000, then add.

20. Expressed in dekares those are 10 and .1.

$$21. 7.5645 \text{ Ha.} \times 27 = 204.2415 \text{ Ha.}$$

$$22. 100 \text{ dm.} = 1 \text{ Dm.}; \therefore 10000 \text{ sq. dm.} = 1 \text{ sq. Dm.} = 1 \\ \text{are} = 1000 \text{ ma.} \therefore 1 \text{ sq. dm.} = .1 \text{ ma.}$$

$$23. 1 \text{ a.} = 5 \text{ da.} = 1.5 \text{ a.} = 1.5 \text{ sq. Dm.} = 1.5 \times 10 \times 10 \text{ sq. m.} \\ = 1.5 \times 10 \times 10 \times 100 \times 100 \text{ sq. cm.}$$

$$24. 10000 \text{ sq. m.} = 1 \text{ Ha.} = 2\frac{1}{2} \text{ acres} = 12100 \times 9 \times 144 \text{ sq.} \\ \text{in.} \therefore 100 \text{ m.} = 110 \times 3 \times 12 \text{ in. or } 1 \text{ m.} = 39.6 \text{ in.}$$

$$25. 1 \text{ s.} = 1 \text{ cu. m.} = (100)^3 \text{ cu. cm.} = \&c.$$

$$26. \text{ One million cu. cm.} = 1 \text{ cu. m.} = 1 \text{ s.}$$

$$27. 1 \text{ ds.} = .1 \text{ s.} = .1 \text{ cu. m.} = .1 \times (10)^3 \text{ cu. dm.} = 100 \\ \text{cu. dm.}$$

$$28. 1 \text{ s. of earth} = 2\frac{1}{2} \text{ s. of water} = 2\frac{1}{2} \text{ cu. m. water} = 2\frac{1}{2} \\ (100)^3 \text{ cu. cm. of water} = 2\frac{1}{2} (100)^3 \text{ g.} = 2\frac{1}{2} (100)^3 \div 1000 \text{ Kg.}$$

$$29. 1 \text{ s. ice} = \frac{1}{2} \text{ s. water} = \frac{1}{2} \text{ of } 1000 \text{ Kg.} = \&c.$$

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$$30. 1 \text{ cu. m.} = (10)^3 \text{ cu. dm.} 1 \text{ s.} = 1 \text{ cu. m.} = 1000 \\ \text{cu. dm.} = 1000 \text{ litres.}$$

$$31. 1 \text{ litre} = 1000 \text{ cu. cm. wh. weigh } 1000 \text{ g.} = 1 \text{ Kg.}$$

$$32. 1000000 \text{ g.} = \text{wt. of } 1000000 \text{ cu. cm.} = \text{wt. of } 1000 \\ \text{cu. dm.} = \text{wt. of } 1000 \text{ litres.}$$

$$33. \text{ The vol. of the solid} = \text{vol. of water displaced wh.} \\ \text{weighs } 1000 \text{ g. and } \therefore = 1000 \text{ cu. cm.} = 1 \text{ cu. dm.}$$

$$34. 1 \text{ Kl. of water} = 1000 \text{ l.} = 1000 \text{ cu. dm.} = 1000000 \text{ cu.}$$