

SOLUTIONS OF PROBLEMS

13. $29.5 \div 39.37 \times 1000$.
14. $10 \text{ m} = 1000 \text{ cm}$. In taking one-half of one part and two-thirds of the other we have taken one-half the whole string and one-sixth of the other part : but one-half the whole string is 500 cm. $\therefore$ one sixth of the other part is 100 cm. $\therefore$ the other part is 600 cm, and the one part is 400 cm.
15. No. minutes = $65 \text{ Km} \div 80 \text{ m} = 65000 \text{ m} \div 80 \text{ m} = 812.5 = \&c$.
16. No. revolutions = distance $\div$ circumference of wheel = $55000 \text{ m} \div (1.4 \times 2 \times \frac{22}{7}) \text{ m} =$
17. $1 \text{ yd.} = \frac{3}{4} \text{ in.} \times 36 \times \frac{5}{2} = 1 \text{ cm} \times 36 \times \frac{5}{2} = 10 \text{ mm} \times 36 \times \frac{5}{2} =$
18. $1 \text{ Km} \div 1 \text{ m } 5 \text{ cm} = 1000000 \text{ mm} \div 1050 \text{ mm}$.
19. No. sq. metres = 6.175×4.12 .
20. Sq. root of $15227.56 = 123.4$.
21. $1200 \div 100$; 1200×100 ; $1200 \div 10$.
22. $12345 \div 1000$; $5678 \div 100 \div 10$; $1 \times 100 \times 100$.
23. These expressed as ares are 12.64, 4.68, 1000 . then add.

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24. Expressed in dekares those are 10 and .1.
25. $7.5645 \text{ Ha} \times 27 = 204.2415 \text{ Ha}$.
26. The length and breadth in decametres are 40 and 27 ; $\therefore$ area = $40 \times 27 \text{ sq. decametres} = 1080 \text{ ares} = \&c$.
27. $18.49 \text{ Ha} = 1849 \text{ ares} = 1849 \text{ sq. decametres}$. $\therefore$ one side is 43 Dm = 430 m. $\therefore$ perimeter = 1720 m.
28. $100 \text{ dm} = 1 \text{ Dm}$; $\therefore 10000 \text{ sq. dm} = 1 \text{ sq. Dm} = 1 \text{ are} = 1000 \text{ ma}$. $\therefore 1 \text{ sq. dm} = .1 \text{ ma}$.
29. Since the cube is a 3-metre cube the area of each face is 9 sq. m. $\therefore$ whole surface is 54 sq. m = .54 sq. Dm = .54 ares = 54 ca.
30. $1 \text{ a } 5 \text{ da} = 1.5 \text{ a} = 1.5 \text{ sq. Dm} = 1.5 \times 10 \times 10 \text{ sq. m} = 1.5 \times 10 \times 10 \times 100 \times 100 \text{ sq. cm}$.
31. If the dimensions are 2, 3, 4, linear units, the volume is 24 cubic units. $\therefore 8 \text{ cubic units} = 1 \text{ cubic m}$. $\therefore$ linear unit = a half metre. $\therefore$ whole surface = 52 sq. half m. = 13 sq. m = .13 sq. Dm = .13 a = 13 ca.
32. If the block is a metre thick it will cover 4.5 sq. m. $\therefore$ if cut into 100 sections it will cover 450 sq. m = 4.5 Dm = 4.5 a.
33. The surface measures $20 \text{ ha} = 2000 \text{ a} = 2000 \text{ sq. Dm} =$