

SOLUTIONS OF PROBLEMS

IN THE

HIGH SCHOOL ARITHMETIC.

METRIC SYSTEM.

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1. $1000 \div 100 = \&c.$; $1000 \div 10 = \&c.$; $1000 \div 100 \div 10 = \&c.$
2. $1000 \div 1000$; $1000 \div 10$; 1000×10 .
3. 12×100 ; 15×1000 ; $21 \times 1000 \times 1000$.
4. $123456789 \div 100$; $123456789 \div 1000$; $123456789 \div 1000 \div 1000$.
5. $8.56 \times 1000 \times 100$; 5.632×1000 ; 12468×1000 .

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6. Expressed in metres these quantities are 14.6, 2.27, 1623, 1634000, then add.
7. Expressed in c.m. these quantities are 567800, 13648.9, then subtract.
8. 12 Km 5 m 8 cm = 12.00508 Km, then multiply by 8×12 .
9. 103 Km = 10300000 cm. $\therefore 1 \text{ yd.} = 64 \text{ miles} \div 64 \div 1760 = 103 \text{ Km} \div 64 \div 1760 = 10300000 \text{ cm} \div 64 \div 1760 = (10300000 \div 8 \div 8 \div 8 \div 2 \div 11) \text{ cm.}$
10. 66000 m in 3600 sec. = $66000 \div 3600 \text{ m per sec.}$
11. In 1 min. the train goes 1 Km = 1000 m. which $\therefore = 20 \text{ spaces.} \therefore 1 \text{ space} = 50 \text{ m.}$
12. The man's height = 5 ft. $10\frac{1}{2} \text{ in.} = 70.5 \text{ in.} = 70.5 \div 39.37 \text{ m} = 70.5 \div 39.37 \times 100 \text{ cm.}$