of grass, and 464 oxen are kept 1 wk. by the grass on 8 ac. + 16 wks.' growth of grass. ∴ 144 oxen are kept 1 wk. by 6 wks.' growth on 8 ac. ∴ 24 oxen are kept 1 wk. by 1 wks.' growth on 8 ac., and 24 oxen are kept a wks. by a wks.' growth on 8 ac., and 45 oxen are kept a wks. by a wks.' growth on 15 ac. ∴ (32 − 24) or 8 oxen are kept by 8 ac. of grass for 10 wks. ∴ (70 − 45) or 25 oxen are kept by 15 ac. of grass for 6 wks.

93. \$2·40 is the int. for 1 year on the first year's int. \$2·496 is the int. for 1 year on the second year's int. ∴ \$·096 is the interest on \$2·40 for 1 year. ∴ the rate is 4%. \$2·40 is the int. on \$60. ∴ the first year's int. = \$60. ∴ the original sum was \$1500.

94. The sides are 45·5 rods and 58 rods. The diagonal is 72·5 rods.

95. The loss is $\frac{1}{16}$ of cost. ∴ the discount fraction is $\frac{1}{4}$, or 25%. Hence the marked price was \$120.

96. Find its value 6 months ago, as on page 202, and find the amount of that value for 6 months.

97. Cash cost of the goods when sold is the P.W. of \$520·20 due in 3 mo., which is \$510. ∴ cash S.P. = \$561, which amounts to \$575.96 in 4 mo.

98. In 1 min. the no. of cu. ft. of water which flows is $\frac{22}{7}\times 7\times 7\times 880\div 144$. Vol. of reservoir 1 in. in depth = $187\times 96\times 9\div 12$ cu.ft. The 2nd of these divided by the 1st is the required no. of min.

99. He sells $388\frac{1}{2}$ yd. for the cost of $\frac{777}{2}\times\frac{88}{35}\times\frac{5}{4}$ yd. ∴ he must sell the rem. for the cost of $777\times\frac{5}{4}-\frac{777}{2}\times\frac{88}{35}\times\frac{5}{4}$ yd. But he sells the rem. as $\frac{777}{2}\times\frac{88}{37}$ yd. ∴ each yd. of the rem. is sold for the cost of $1\frac{285}{604}$ yd. ∴ he must mark it at $\frac{285}{604}$ of 100% of cost.

100. By (a) the cost will be $100\frac{1}{2}$% of \$5000 = \$5025. By (b) the cost will be $\frac{100}{99\frac{1}{2}}$ of \$5000 = \$5025·1256.