4 A merchant bought 300lbs, of tea for \$180; he paid 50cts, per lb. for a part of it and another price for the remainder; had he paid 50cts, per lb. for the second quantity and the second price for the first quantity, he would have paid \$30 more. What was the price per lb. of the second quantity? 80cts.—Ans.

\$60

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5 Simplify $(\frac{1}{12})^{-2} + \sqrt{(\frac{9.8}{166} - \frac{1.7}{12})}$. $\frac{1.09}{144}$ - Ans.

6 The triangular gable of a building has a base of 38 feet and an altitude of 16 feet. What will it cost to cover the two gables with half-inch lumber at \$20 per thousand inch measure? \$12.16—Ans.

Fifth Class-9.

1 A horse and carriage cost 320; had \$20 more been paid for the horse, and the cost of the two remained the same, he would have cost 2½ times as much as the carriage; find the cost of the horse. \$200—Ans.

2 If the diameter of a half-penny be to that of a penny as 3:4; how many times the thickness of the half-penny is the thickness of the penny ? $1\frac{1}{8}$ times—Ans.

3 A ruler is 1in. in diameter and 22ins. long; how many cubic inches in $\frac{5}{11}$ of it? $7\frac{6}{1}$ cub. ins—Ans.

4 A and B engage in trade and gain \$420; A owns \$200 more than \frac{2}{3} of the stock and B's share of the gain is \$100; find A's stock. \$1600—Ans.

5 The amount is \$800, the principal is three times the interest, the time is 5yrs; find the rate per cent. $6\frac{2}{3}$ per cent—Ans.

6 In a right angled triangle the base is 40 rods and the perpendicular is 30 rods; find the area of the tri angle whose base is the line joining the points of bisection of the perpendicular and hypothenuse. 150sq. rods.—Ans.