hand is at 2 and the minute hand at 6; in how many minutes will they be together? $40\frac{920}{1177}$mins.—Ans.

**2** A farmer sold a cow at a gain of 30 per cent; if he had sold her for $4 less he would have gained only 20 per cent. How much did he get for the cow? $52—Ans.

**3** Of two kinds of flour the first is worth 50cents per brl. more than the second, and 11brls. of the first are worth as much as 12brls. of the second; find the price of the first kind per barrel. $6—Ans.

**4** At how much per hundred must a person buy Bank Stock which pays a half-yearly dividend of $2\frac{1}{2}$ per cent in order that he may receive 6 per cent for his money? $83\frac{1}{3}$—Ans.

**5** A man receives $1.60 for every day he works and forfeits 50cts. every day he is idle. He earns $59 in 50 days; how many days did he work? 40days—Ans.

**6** A safe is 2ft. 8ins. long, 2ft. 6ins. wide and 3ft. high in external dimensions and the metal of which it is composed is 8ins. thick; find the capacity of the safe. $2\frac{16}{27}$ cubic feet—Ans.

### Fifth Class—15.

**1** A and B enter into partnership. A contributes 60 per cent of the joint capital for 8mos., and B receives 30 per cent of the gain; how many months was B's capital in the investment? $5\frac{1}{4}$months—Ans.

**2** A merchant bought a quantity of tea for $34.40; after selling 6lbs. at cost, he sold 30 per cent of the remainder for $10.56, gaining 10 per cent; how many pounds did he buy? 86pounds—Ans.

3 The hour hand of a clock moves 20 per cent too fast and the minute hand moves 20 per cent too slow;