

2 An agent sold flour on a commission at 5 per cent and invested the net proceeds in silk on commission at 4 per cent. His whole commission was \$69.23 $\frac{1}{3}$ , and the price of the silk was \$1 per yd ; find the value of the flour and the number of yards of silk bought? \$800; 730 $\frac{1}{3}$ yds.—Ans.

3 What is the difference between the true and bank discount on \$636 for 1yr. at 6 per cent. \$2.47 $\frac{133}{88}$ —Ans.

4 Five times the square of a certain number is greater than three times its square by 1250 ; find the number. 25—Ans.

5 How many cubic feet of timber in a log 14ft. long and 2ft. in diameter. (Diameter $\times 3\frac{1}{4}$ =circumference)? 44 cub. ft.—Ans.

6 A field in the form of a right-angled triangle has two sides 30rods long ; find the length of the other side. 42.42+feet—Ans.

### Fifth Class - 8.

1 A Canadian cent is placed on a penny so that their centres coincide. The penny is 1 $\frac{1}{8}$ ins. in diameter ; find the area of the uncovered part of the penny ( $d \times 3\frac{1}{4} = c$ ). 1 $\frac{1}{8}$ sq. ins.—Ans.

2 A refiner has 20 ounces of gold 21 carats fine and melts it with 10 ounces 20 carats fine ; how much pure gold must be added to make the mixture 22carats fine? 20ounces—Ans.

3 A company took a risk at 2 per cent and re-insured  $\frac{3}{4}$  of it in another company at 2 $\frac{1}{2}$  per cent. The premium received by the company was \$8 more than that paid ; on how much more was a premium received than paid? \$1600—Ans.