ELEMENTARY ARITHMETIC.

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5 Two watches show correct time on Monday at noon. One gains 2 mins. per day and the other loses 20 secs.every hour; what difference will there be between the two watches at noon on Saturday of the same week ? 50 mins.—Ans.

6 The base and perpendicular of a right angled triangle are 40 and 30 respectively; find the area of the triangle whose sides are the base, the perpendicular from the right angle upon the hypothenuse and the segment adjacent to the base. 384—Ans.

Fifth Class-12.

1 A man in Montreal owes a person in London £900 sterling. In paying this debt how many dollars will he have to give for a bill of exchange ; exchange at 110 and commission $\frac{3}{4}$ per cent? \$4430—Ans.

2 A person has an annual income of \$500 from Bank Stock which pays 5 per cent dividend and sells at 120. What would his annual income be if he sold out and invested in Railway Stock at 140, which pays a half-yearly dividend of $3\frac{1}{2}$ per cent? \$600—Ans.

3 John is 32yrs. old and Thomas is 14yrs.; in how many years will John be twice as old as Thomas? 4yrs. -Ans.

4 A merchant sold goods allowing his customers a year's credit or a reduction of 10 per cent for cash. A customer bought goods to the amount of \$300 and paid cash. How much did he save, money being worth **8** per cent per annum? \$8.40—Ans.

5 The perimeter of an equilateral triangle is 120 rods. Find the length of a line drawn from one of the angles to the middle of the opposite side. 34.64 + rods. Ans.

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