per cent. of the remainder, and had 36 le.3: how many had he at first?

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Sol.—20 per cent lost= $\frac{1}{5}$ loss $\cdot \cdot \cdot \cdot \frac{4}{5}$ rem.: 25 per cent. of this sold= $\frac{1}{4}$ sold $\cdot \cdot \cdot \cdot \frac{3}{5}$ rem. =36, $\cdot \cdot \cdot \cdot \cdot \frac{3}{5}$ cen.

- 11. 80 per cent of \$250 is 62½ per cent. of what n:y watch cost: find the cost.
- 12. In a school, 20 per cent. of the scholars are in the 5th class, each of the next three classes contains $18\frac{1}{3}$ per cent. of the remainder: what percentage of the school is in the primary class?

Sol.—20 per cent. in 5th class : 80 per cent. = $\frac{4}{5}$ in the other classes; $18\frac{1}{3}$ per cent. $\times 3$ =
55 per cent. = $\frac{1}{2}\frac{1}{0}$, and $\frac{1}{2}\frac{1}{0}$ of $\frac{4}{5}$ = $\frac{1}{2}\frac{1}{5}$ in three of remaining classes : $\frac{4}{5}$ = $\frac{1}{2}\frac{1}{5}$ = $\frac{9}{2}$ =36 per cent. in last class.

EXAMPLES. -- 3.

- 1. If I add $\frac{1}{2}$ of unity to itself, what fractional part of the sum must I take off so that the remainder may be unity?
- 2. What part taken from a number is equal to 1 of the remainder?
 - Sol.—The remainder $+\frac{1}{4}$ of rem. (=\frac{5}{4} rem.)= given number ... \frac{5}{5} of number = rem., and $\frac{1}{5}$ has to be subtracted.
- **3**. To a number $\frac{1}{8}$ of itself is added, what part must be taken from the sum to get the number?
- 4. What part taken from a number is equal to 3 of the remainder 1