

1961

1. £260 amounts to £289 5s. in $2\frac{1}{2}$ years at simple interest. Find the rate per cent per annum.

2. Simplify :—

$$\frac{5\frac{5}{12} \div 2\frac{2}{3} - 1\frac{1}{12} \times 1\frac{1}{2}}{1\frac{3}{5} + 2\frac{1}{6} \div 1\frac{1}{3}}$$

3. The floor of a room is 18 feet long by $15\frac{1}{2}$ feet wide. A carpet is placed in the centre leaving a margin of 9 inches all round. Find the cost of painting the margin at 2s. 3d. per square yard.

4. A shopkeeper buys 120 dozen eggs for £20. If $2\frac{1}{2}\%$ of them are broken and he sells the remainder at 4s. a dozen, find his profit per cent.

5. A motorist starts a journey at 9.30 a.m. and finishes it at 2.9 p.m. For 2 hrs. 15 mins. his average speed was 40 miles per hour, and during the rest of the time he averaged 30 miles per hour. How far did he travel?