

1. Simplify :—

$$\frac{\frac{9}{11} - \frac{6}{13} \text{ of } (\frac{5}{8} - \frac{1}{9})}{3\frac{2}{3} + 2\frac{1}{7} \times \frac{7}{9}}$$

2. In what time will £376 13s. 4d. amount to £447 5s. 10d. at $3\frac{3}{4}\%$ per annum, simple interest ?

3. A merchant spent £324 12s. 0d. on the purchase of a certain quantity of coal. He bought 10 tons at £8 14s. 0d. per ton, 14 tons at £9 per ton, and the remainder at £9 6s. 0d. per ton.

Find : (a) the total number of tons bought ;
(b) the average price per ton.

4. A room is 20 ft. 6 in. long, 15 ft. 9 in. wide and 8 ft. high. Find the cost of painting the four walls of the room at 2s. 3d. per square yard, if 49 square feet must be allowed for the windows and the door.

5. 1,152 people attended a concert. Of this total 432 were men, 528 women, and the rest children.

Express : (a) the number of men present as a decimal of the total ;
(b) the number of children present as a percentage of the total.