

5. $\frac{\$22.50}{90c.} = 25$ yds. or 75 ft. of carpet. This will make 5 strips the length of the room \therefore width of room = 27 in. \times 5 = $11\frac{1}{4}$ ft.

6. Boy can do 3 times the work in 14 days and the man 7 times, or both together 10 times \therefore they can do 5 times the work in 7 days.

$$7. \frac{\$4.60 \times 92}{\$3.60} - 92 = 25\frac{1}{2}.$$

8. The time is 423 days ; $\$275.60 \times \frac{423}{365} \times \frac{6}{100} = \$19.15.$

9. First when the minute-hand has gained 18 minute-spaces on the hour hand, or $\frac{12}{11}$ of 18 minutes past 4 o'clock. Next when it has gained 22 minute-spaces, or $\frac{12}{11}$ of 22 minutes past 4 o'clock.

JUNE, 1885.

1. Seventeen millions eighty-nine thousand six hundred and fifty-three and five thousand nine hundred and four millionths. Seven hundred and five dollars, sixty-three cents and seven mills. One thousand eight hundred and eighty-five.

$$2. \frac{7}{47} (3\frac{1}{2} + 9\frac{1}{4}) = 2 ; \frac{4}{13} \text{ of } \frac{\text{£}15 \text{ 10s. 2d.}}{16\text{s. 2d.}} = \frac{4}{13} \text{ of } 1\frac{861}{97} ;$$

and $2 \times \frac{1}{4} \times \frac{97}{1861} = \frac{1}{37} \frac{61}{2}.$

$$3. \begin{array}{r} 17 \cdot 6\dot{5}4 = 17 \cdot 6545454\dot{5} \\ 4 \cdot 8\dot{3}5 = 4 \cdot 8358358\dot{3} \\ 6 \cdot 40\dot{8} = 6 \cdot 4088888\dot{8} \\ \hline \text{Sum} = 27.8992701\dot{7} \end{array}$$

$$4. \$93.39\frac{1}{2}.$$

$$5. \$7.50 + 10 \text{ per cent.} = \$8.25 = 8\frac{1}{4}\text{c. a lb.}$$

$$6. \$167 \times 3\frac{3}{4} \times \frac{7}{100} = \$37.99\frac{1}{4}.$$

$$7. \frac{100}{6} = 16\frac{2}{3} \text{ years.}$$