

27, 28, and 30 days, respectively. (4.) 40 bushels. (5.) 34560 rails, 13 ft. long. (6.) Art. 56. (7.) 649195944494. (8.) A goes 9 miles, B, 6, C, $4\frac{1}{2}$ and D, 4. (9.) 1400 rods. (10.) A, 2; B, 3; C, 4.

FRACTIONS.

X.—Page 46.

(1.) Art. 64. (3.) $\frac{1}{20}$. (4.) $\frac{5132227}{838088}$; $\frac{512084}{838088}$; $\frac{513128}{838088}$; $\frac{143}{40}$. (5.) $\frac{1}{8}$. (6.) $\frac{4}{5}$. (7.) Art. 72; 1. (8.) 1. (9.) $\frac{29}{150}$; $2\frac{103}{12}$. (10.) 1.

XI.—Page 47.

(2.) $\frac{16288}{72000}$ of £100. (3.) $\frac{144}{7}$; 36025 min. (4.) 3d. 16h. 6m. $22\frac{1}{2}$ sec. (5.) $\frac{642}{84}$. (6.) 1520 tons. (7.) £4 8s. $1\frac{1}{2}$ d. $\frac{397}{25}$ q. (8.) The unit is 24 cwt., of which $2\frac{1}{4}$ cwt. is tin, and $21\frac{3}{4}$ cwt. copper. (9.) The length of the measuring rod is $28\frac{7}{8}$ inches, and is contained $98\frac{3}{8}$ times in 77 yards, which is not so near 99 times as by $\frac{99}{32}$ in defect. The distance, therefore, which approaches nearest to 77 yards is 99 times the length of the measuring rod. (10.) If the error be *in defect*, the apparent length is 502 yards, and $24\frac{1}{2}$ inches over. If the error be *in excess*, the apparent length is 499 yards, and $3\frac{1}{8}$ inches over.

XII.—Page 48.

(1.) $7\frac{1}{8}$. (2.) $\frac{1}{27}$. (3.) $\frac{1188388}{788940}$. (4.) $140\frac{1}{3}$ yds.; \$6.31 $\frac{1}{2}$. (5.) \$29333.33 $\frac{1}{3}$. (6.) $\frac{7}{22}$; $1\frac{288}{3188}$. (7.) Lost \$400. (8.) £27 10s. (9.) 25 men. (10.) $1\frac{1}{2}$.

XIII.—Page 50.

(1.) Art. 71. (2.) $\frac{1}{5}$. (3.) \$6000. (4.) $\frac{113388}{394470}$. (5.) $2800\frac{1}{4}$. (6.) $\frac{45}{121}$ of an hour. (7.) \$53.10. (8.) $\frac{91}{21}$. (9.) 1200; Irish, 480; Scotch, 360; English, 360. (10.) \$9581.31 $\frac{1}{2}$.