ARTICLE 111.—CASE II.

Addition of Fractions.

Add the following:

- 1. $\frac{2}{3}$, $\frac{4}{5}$, $\frac{5}{6}$, $\frac{9}{10}$, $\frac{14}{15}$
- 2. $\frac{3}{4}$, $\frac{5}{8}$, $\frac{7}{12}$, $\frac{9}{16}$, $\frac{19}{24}$
- 3. $\frac{1}{8}$, $\frac{3}{5}$, $\frac{5}{6}$, $\frac{7}{10}$, $\frac{8}{15}$
- 4. $\frac{1}{2}$, $\frac{1}{8}$, $\frac{1}{4}$, $\frac{1}{6}$, $\frac{1}{8}$, $\frac{1}{12}$, $\frac{1}{24}$
- 5. $\frac{2}{8}$, $\frac{8}{4}$, $\frac{5}{6}$, $\frac{7}{8}$, $\frac{15}{16}$, $\frac{23}{24}$, $\frac{47}{48}$
- **6.** $\frac{8}{4}$, $\frac{4}{5}$, $\frac{7}{10}$, $\frac{5}{12}$, $\frac{8}{15}$, $\frac{11}{20}$, $\frac{17}{30}$, $\frac{31}{60}$
- **7.** $\frac{3}{8}$, $\frac{5}{12}$, $\frac{7}{16}$, $\frac{13}{24}$, $\frac{19}{32}$, $\frac{25}{48}$, $\frac{47}{96}$
- **8.** $\frac{5}{8}$, $\frac{7}{9}$, $\frac{11}{12}$, $\frac{9}{16}$, $\frac{13}{18}$, $\frac{17}{24}$, $\frac{25}{36}$, $\frac{43}{48}$, $\frac{55}{72}$
- 9. $\frac{2}{5}$, $\frac{3}{10}$, $\frac{4}{15}$, $\frac{8}{25}$, $\frac{11}{80}$, $\frac{16}{45}$, $\frac{19}{50}$
- 10. $1\frac{5}{8}$, $\frac{5}{9}$, $4\frac{5}{12}$, $\frac{5}{16}$, $7\frac{5}{18}$, $\frac{5}{24}$, $10\frac{5}{32}$, $\frac{5}{36}$, $13\frac{5}{48}$, $\frac{5}{72}$, $16\frac{5}{90}$
- **II.** $\frac{5}{6}$, $\frac{6}{7}$, $\frac{8}{9}$, $\frac{18}{14}$, $\frac{17}{18}$, $\frac{20}{21}$, $\frac{41}{42}$, $\frac{62}{68}$, $\frac{101}{126}$
- 12. $\frac{1}{8}$, $\frac{1}{6}$, $\frac{1}{6}$, $\frac{1}{16}$, $\frac{1}{26}$, $\frac{1}{80}$, $\frac{1}{60}$, $\frac{1}{76}$, $\frac{1}{160}$
- 13. \$2, \$6, \$6, \$6, \$6, \$6, \$6, \$72, \$6, \$720, \$144, \$180
- 14. $3\frac{1}{8}$, $3\frac{1}{6}$, $3\frac{1}{10}$, $3\frac{1}{12}$, $3\frac{1}{16}$, $3\frac{1}{20}$
- 15. $2\frac{1}{2}$, $2\frac{1}{8}$, $2\frac{1}{8}$, $2\frac{1}{7}$, $2\frac{1}{14}$, $2\frac{1}{21}$, $2\frac{1}{12}$
- 16. $7\frac{4}{9}$, $8\frac{5}{18}$, $9\frac{7}{27}$, $10\frac{7}{36}$, $11\frac{8}{45}$, $12\frac{11}{64}$, $13\frac{19}{72}$, $14\frac{23}{86}$, $15\frac{25}{108}$
- 17. $1\frac{1}{2}$, $1\frac{2}{8}$, $1\frac{2}{4}$, $1\frac{4}{5}$, $1\frac{5}{6}$, $1\frac{7}{8}$, $1\frac{9}{10}$, $1\frac{11}{12}$, $1\frac{14}{15}$, $1\frac{19}{26}$, $1\frac{29}{80}$, $1\frac{49}{120}$
 - 18. $1\frac{9}{4}$, $2\frac{11}{21}$, $3\frac{15}{28}$, $4\frac{25}{42}$, $5\frac{27}{56}$, $6\frac{47}{84}$, $7\frac{69}{168}$

- 19. $1\frac{1}{2}$, $2\frac{2}{8}$, $3\frac{8}{4}$, $4\frac{5}{8}$, $5\frac{4}{8}$, $6\frac{7}{12}$, $7\frac{5}{18}$, $8\frac{16}{27}$, $9\frac{19}{84}$
- **20.** $1\frac{5}{9}$, $3\frac{7}{10}$, $5\frac{5}{12}$, $7\frac{8}{18}$, $9\frac{18}{28}$, $10\frac{17}{80}$, $12\frac{19}{86}$, $14\frac{32}{46}$, $16\frac{53}{60}$, $17\frac{41}{90}$
- **21.** $45\frac{8}{10}$, $50\frac{7}{12}$, $65\frac{4}{15}$, $75\frac{9}{20}$, $85\frac{14}{25}$, $95\frac{17}{80}$, $100\frac{27}{80}$, $105\frac{41}{60}$, $115\frac{26}{75}$, $125\frac{89}{100}$, $135\frac{47}{150}$
- 22. If 11⁹/₁₆ be subtracted from a certain number, 13⁴/₈ will remain. What is the number?
- 23. A man spent $$75\frac{8}{10}$, and then had $$69\frac{8}{4}$ more than he spent. How much money had he at first?
- 24. Four loads of barley measured as follows: $35\frac{5}{8}$ bu., $33\frac{7}{16}$ bu., $36\frac{9}{82}$ bu., and $34\frac{17}{64}$ bu. How many bushels were there in all?
- 25. By selling a lot of tobacco for \$256\frac{16}{2}\frac{6}{2}\$, I lost \$32\frac{2}{6}\$. For how much should it have been sold to gain \$26\frac{28}{6}\frac{2}{6}\$?
- 26. A laborer's earnings for six consecutive months were respectively $\$42\frac{1}{2}$, $\$45\frac{8}{4}$, $\$48\frac{7}{10}$, $\$51\frac{1}{20}$, $\$54\frac{8}{20}$, $\$57\frac{9}{50}$. What was the entire sum?
- 27. A farmer sowed $7\frac{1}{6}$ acres in wheat, $8\frac{7}{8}$ acres in oats, $9\frac{5}{12}$ acres in rye, $10\frac{9}{16}$ acres in barley, $11\frac{1}{2}\frac{1}{4}$ acres in corn, $12\frac{25}{48}$ acres in hay. How many acres did he own?
- 28. An engineer surveyed a road as follows: the first week $3\frac{2}{8}$ miles; the second, $4\frac{3}{4}$ miles; the third, $5\frac{4}{5}$ miles; the fourth, $6\frac{5}{6}$ miles; the fifth, $8\frac{9}{10}$ miles; the sixth, $9\frac{1}{2}$ miles; the seventh, $10\frac{2}{15}$ miles. What was the length of the road?
- 29. A can build $50\frac{2}{3}$ rods of fence in a week; B, $51\frac{3}{4}$ rods; C, $52\frac{5}{6}$ rods; D, $53\frac{8}{9}$ rods; E, $54\frac{11}{12}$ rods; F, $55\frac{17}{18}$ rods. How many rods can all build in a week.

- 30. Eight loads of hay weighed respectively $1\frac{1}{4}$ tons, $1\frac{2}{5}$ tons, $1\frac{3}{8}$ tons, $1\frac{3}{10}$ tons, $1\frac{7}{20}$ tons, $1\frac{8}{25}$ tons, $1\frac{17}{40}$ tons, $1\frac{19}{50}$ tons. What was the entire weight?
- 31. Six casks of wine were gauged as follows: $31\frac{1}{8}$ gal., $34\frac{2}{9}$ gal., $33\frac{5}{12}$ gal., $35\frac{7}{16}$ gal., $32\frac{5}{18}$ gal., $33\frac{25}{48}$ gal. What was the total number?
- 32. A steamship made seven trips across the Atlantic. The first in $13\frac{13}{24}$ days, the second in $12\frac{7}{18}$ days, the third in $11\frac{5}{8}$ days, the fourth in $10\frac{1}{6}$ days, the fifth in $9\frac{5}{12}$ days, the sixth in $8\frac{8}{9}$ days, the seventh in $7\frac{11}{36}$ days. In how many days were the seven trips made?
- 33. Five cars of wheat contained respectively $400\frac{1}{2}$ bu., $422\frac{2}{5}$ bu., $437\frac{5}{8}$ bu., $445\frac{9}{10}$ bu., $451\frac{5}{6}$ bu. They were sold for $$333\frac{3}{4}$, $$369\frac{3}{5}$, $$364\frac{11}{16}$, $$408\frac{37}{40}$, and $$406\frac{13}{20}$. How many bushels were there, and what was the total value?
- 34. Four miners dug the following quantities of gold: The first dug $18\frac{9}{10}$ oz.; the second, $2\frac{5}{8}$ oz. more than the first; the third, $2\frac{3}{20}$ oz. more than the second; and the fourth, $2\frac{19}{40}$ oz. more than the third. How much did they dig altogether?

ANSWERS.

ARTICLE 111.

I.	4 3	13.	I.	25.	$\$315\frac{1}{2}$
2.	$3\frac{5}{16}$	14.	22.	26.	\$300.
3.	3.	15.	15 2	27.	60 A.
4.	$1\frac{1}{2}$	16.	$101\frac{37}{120}$	28.	50 mi.
5.	6.	17.	$21\frac{1}{2}$.	29.	320 rds.
6.	$4\frac{5}{6}$	18.	31 3	30.	10 ⁴ / ₅ T.
7.	3 8	19.	50.	31.	200 gal.
8.	$6\frac{2}{3}$	20.	100.	32.	73 1 da.
9.	$2\frac{7}{18}$	21.	1000.	22.	2158 <mark>81</mark> bu. } \$1883 49 }
10.	$53\frac{11}{12}$	22.	$25\frac{29}{80}$	22.	\$1883 48 \$
II.	81/6	23.	$$220\frac{7}{20}$	34.	90¼ oz.
12.	49 50	24.	139 84 bu.		