

## Addition of Fractions

	a	b	c	d	e	f	
I.	1.	$\frac{3}{7}$ <u>2</u> $\frac{2}{7}$	$\frac{4}{9}$ <u>7</u> $\frac{7}{9}$	$\frac{3}{4}$ <u>2</u> $\frac{2}{4}$	$2\frac{1}{3}$ <u>4</u> $4\frac{1}{3}$	$6\frac{3}{5}$ <u>9</u> $9\frac{4}{5}$	$\frac{5}{6}$ <u>4</u> $4\frac{2}{6}$
	2.	$\frac{7}{10}$ <u>4</u> $\frac{4}{10}$	$\frac{6}{8}$ <u>7</u> $\frac{7}{8}$	$\frac{5}{9}$ <u>8</u> $\frac{8}{9}$	$2\frac{3}{4}$ <u>6</u> $6\frac{2}{4}$	$4\frac{6}{7}$ <u>3</u> $3\frac{5}{7}$	$6\frac{7}{8}$ <u>4</u> $\frac{4}{8}$
II.	1.	$\frac{3}{8}$ <u>1</u> $\frac{1}{8}$	$\frac{7}{12}$ <u>11</u> $\frac{11}{12}$	$\frac{9}{16}$ <u>13</u> $\frac{13}{16}$	$2\frac{3}{4}$ <u>6</u> $6\frac{1}{4}$	$\frac{5}{8}$ <u>9</u> $9\frac{7}{8}$	$12\frac{7}{10}$ <u>7</u> $7\frac{3}{10}$
	2.	$\frac{5}{6}$ <u>5</u> $\frac{5}{6}$	$\frac{7}{16}$ <u>15</u> $\frac{15}{16}$	$\frac{7}{12}$ <u>1</u> $\frac{1}{12}$	$8\frac{3}{8}$ <u>5</u> $5\frac{7}{8}$	$2\frac{11}{16}$ <u>7</u> $7\frac{9}{16}$	$\frac{7}{9}$ <u>4</u> $\frac{5}{9}$
III.	1.	$\frac{1}{2}$ <u>3</u> $\frac{3}{8}$	$\frac{5}{6}$ <u>1</u> $\frac{1}{3}$	$\frac{11}{12}$ <u>1</u> $\frac{1}{6}$	$9\frac{5}{8}$ <u>6</u> $6\frac{3}{4}$	$7\frac{2}{3}$ <u>8</u> $8\frac{1}{6}$	$7\frac{3}{4}$ <u>1</u> $\frac{1}{8}$
	2.	$\frac{5}{9}$ <u>2</u> $\frac{2}{3}$	$\frac{9}{10}$ <u>1</u> $\frac{1}{5}$	$\frac{9}{16}$ <u>3</u> $\frac{3}{4}$	$8\frac{1}{3}$ <u>5</u> $5\frac{1}{12}$	$6\frac{3}{4}$ <u>7</u> $7\frac{3}{8}$	$\frac{15}{16}$ <u>5</u> $\frac{3}{4}$
IV.	1.	$\frac{1}{2}$ <u>5</u> $\frac{5}{6}$	$\frac{7}{12}$ <u>2</u> $\frac{2}{3}$	$\frac{5}{6}$ <u>2</u> $\frac{2}{3}$	$7\frac{7}{10}$ <u>6</u> $6\frac{1}{2}$	$9\frac{3}{4}$ <u>7</u> $\frac{7}{12}$	$6\frac{5}{6}$ <u>9</u> $9\frac{5}{12}$
	2.	$\frac{3}{4}$ <u>11</u> $\frac{11}{12}$	$\frac{5}{6}$ <u>11</u> $\frac{11}{12}$	$\frac{3}{5}$ <u>9</u> $\frac{9}{10}$	$6\frac{2}{3}$ <u>8</u> $8\frac{1}{12}$	$5\frac{1}{4}$ <u>9</u> $\frac{9}{20}$	$11\frac{2}{3}$ <u>7</u> $\frac{5}{6}$
V.	1.	$\frac{1}{2}$ <u>2</u> $\frac{2}{5}$	$\frac{3}{4}$ <u>2</u> $\frac{2}{3}$	$\frac{1}{8}$ <u>2</u> $\frac{2}{3}$	$5\frac{7}{8}$ <u>6</u> $6\frac{1}{3}$	$9\frac{1}{4}$ <u>4</u> $4\frac{2}{3}$	$7\frac{3}{4}$ <u>5</u> $\frac{5}{6}$
	2.	$\frac{3}{8}$ <u>1</u> $\frac{1}{6}$	$\frac{5}{6}$ <u>4</u> $\frac{4}{9}$	$\frac{7}{10}$ <u>3</u> $\frac{3}{4}$	$8\frac{1}{6}$ <u>5</u> $5\frac{3}{4}$	$1\frac{3}{4}$ <u>2</u> $\frac{2}{3}$	$16\frac{1}{2}$ <u>9</u> $\frac{4}{5}$
VI.	1.	$\frac{3}{4}$ <u>1</u> $\frac{1}{2}$ <u>7</u> $\frac{7}{8}$	$\frac{5}{6}$ <u>7</u> $\frac{7}{8}$ <u>2</u> $\frac{2}{3}$	$\frac{9}{16}$ <u>3</u> $\frac{3}{4}$ <u>1</u> $\frac{1}{8}$	$6\frac{2}{3}$ <u>4</u> $4\frac{1}{2}$ <u>9</u> $9\frac{11}{12}$	$8\frac{5}{6}$ <u>3</u> $3\frac{1}{2}$ <u>9</u> $9\frac{3}{4}$	$7\frac{5}{8}$ <u>9</u> $\frac{9}{16}$ <u>8</u> $\frac{3}{4}$
	2.	$\frac{1}{2}$ <u>2</u> $\frac{2}{3}$ <u>3</u> $\frac{3}{4}$	$\frac{11}{12}$ <u>3</u> $\frac{3}{8}$ <u>5</u> $\frac{5}{6}$	$\frac{7}{9}$ <u>2</u> $\frac{2}{3}$ <u>1</u> $\frac{1}{6}$	$7\frac{5}{8}$ <u>9</u> $9\frac{3}{4}$ <u>4</u> $4\frac{1}{2}$	$6\frac{3}{8}$ <u>7</u> $7\frac{3}{4}$ <u>2</u> $\frac{2}{3}$	$9\frac{7}{16}$ <u>4</u> $\frac{3}{8}$ <u>7</u> $\frac{1}{2}$

### Answers to Addition of Fractions

- I. 1. a.  $\frac{5}{7}$ , b.  $1\frac{2}{3}$ , c.  $1\frac{1}{4}$ , d.  $6\frac{2}{3}$ , e.  $16\frac{2}{3}$ , f.  $5\frac{1}{8}$ . 2. a.  $1\frac{1}{10}$ , b.  $1\frac{5}{8}$ , c.  $1\frac{4}{9}$ , d.  $9\frac{1}{4}$ , e.  $8\frac{4}{7}$ , f.  $7\frac{3}{8}$ .
- II. 1. a.  $\frac{1}{2}$ , b.  $1\frac{1}{2}$ , c.  $1\frac{3}{8}$ , d. 9, e.  $10\frac{1}{2}$ , f. 20. 2. a.  $1\frac{2}{3}$ , b.  $1\frac{3}{8}$ , c.  $\frac{2}{3}$ , d.  $14\frac{1}{4}$ , e.  $10\frac{1}{4}$ , f.  $5\frac{1}{3}$ .
- III. 1. a.  $\frac{7}{8}$ , b.  $1\frac{1}{8}$ , c.  $1\frac{1}{12}$ , d.  $16\frac{3}{8}$ , e.  $15\frac{5}{8}$ , f.  $7\frac{7}{8}$ . 2. a.  $1\frac{2}{9}$ , b.  $1\frac{1}{10}$ , c.  $1\frac{5}{16}$ , d.  $13\frac{5}{12}$ , e.  $14\frac{1}{8}$ , f.  $6\frac{11}{16}$ .
- IV. 1. a.  $1\frac{1}{3}$ , b.  $1\frac{1}{4}$ , c.  $1\frac{1}{2}$ , d.  $14\frac{2}{5}$ , e.  $10\frac{1}{3}$ , f.  $16\frac{1}{4}$ . 2. a.  $1\frac{2}{3}$ , b.  $1\frac{3}{4}$ , c.  $1\frac{1}{2}$ , d.  $14\frac{3}{4}$ , e.  $5\frac{7}{10}$ , f.  $19\frac{1}{2}$ .
- V. 1. a.  $\frac{9}{10}$ , b.  $1\frac{5}{12}$ , c.  $\frac{19}{24}$ , d.  $12\frac{5}{24}$ , e.  $13\frac{11}{12}$ , f.  $8\frac{7}{12}$ . 2. a.  $\frac{13}{24}$ , b.  $1\frac{5}{18}$ , c.  $1\frac{9}{20}$ , d.  $13\frac{11}{12}$ , e.  $2\frac{5}{12}$ , f.  $26\frac{3}{10}$ .
- VI. 1. a.  $2\frac{1}{8}$ , b.  $2\frac{3}{8}$ , c.  $1\frac{7}{16}$ , d.  $21\frac{1}{12}$ , e.  $22\frac{1}{12}$ , f.  $16\frac{1}{16}$ . 2. a.  $1\frac{11}{12}$ , b.  $2\frac{1}{8}$ , c.  $1\frac{11}{18}$ , d.  $21\frac{7}{8}$ , e.  $14\frac{19}{24}$ , f.  $21\frac{5}{16}$ .

### Subtraction of Fractions

	a	b	c	d	e	f
I. 1.	$\frac{4}{5}$ <u><math>\frac{3}{5}</math></u>	$\frac{5}{6}$ <u><math>\frac{1}{6}</math></u>	$\frac{7}{8}$ <u><math>\frac{5}{8}</math></u>	$12\frac{2}{3}$ <u><math>4\frac{1}{3}</math></u>	$9\frac{5}{6}$ <u><math>8\frac{5}{6}</math></u>	$9\frac{7}{12}$ <u><math>6\frac{1}{12}</math></u>
2.	$\frac{7}{9}$ <u><math>\frac{5}{9}</math></u>	$\frac{15}{16}$ <u><math>\frac{11}{16}</math></u>	$\frac{9}{10}$ <u><math>\frac{7}{10}</math></u>	$6\frac{3}{4}$ <u><math>\frac{3}{4}</math></u>	$4\frac{5}{8}$ <u><math>\frac{3}{8}</math></u>	$16\frac{4}{5}$ <u><math>7\frac{3}{5}</math></u>
II. 1.	$\frac{3}{4}$ <u><math>\frac{7}{12}</math></u>	$\frac{1}{2}$ <u><math>\frac{3}{10}</math></u>	$\frac{9}{16}$ <u><math>\frac{1}{4}</math></u>	$12\frac{7}{8}$ <u><math>6\frac{1}{2}</math></u>	$8\frac{2}{3}$ <u><math>4\frac{1}{6}</math></u>	$6\frac{3}{4}$ <u><math>\frac{7}{12}</math></u>
2.	$\frac{3}{5}$ <u><math>\frac{3}{10}</math></u>	$\frac{15}{16}$ <u><math>\frac{7}{8}</math></u>	$\frac{11}{12}$ <u><math>\frac{2}{3}</math></u>	$9\frac{3}{4}$ <u><math>2\frac{5}{8}</math></u>	$5\frac{3}{4}$ <u><math>\frac{5}{16}</math></u>	$8\frac{2}{3}$ <u><math>8\frac{5}{9}</math></u>
III. 1.	$\frac{2}{3}$ <u><math>\frac{1}{5}</math></u>	$\frac{1}{2}$ <u><math>\frac{1}{3}</math></u>	$\frac{2}{3}$ <u><math>\frac{1}{4}</math></u>	$6\frac{5}{8}$ <u><math>2\frac{1}{3}</math></u>	$9\frac{3}{4}$ <u><math>7\frac{2}{3}</math></u>	$1\frac{7}{8}$ <u><math>\frac{2}{3}</math></u>
2.	$\frac{5}{6}$ <u><math>\frac{3}{4}</math></u>	$\frac{5}{6}$ <u><math>\frac{3}{8}</math></u>	$\frac{2}{3}$ <u><math>\frac{2}{5}</math></u>	$8\frac{3}{4}$ <u><math>1\frac{1}{6}</math></u>	$4\frac{5}{6}$ <u><math>\frac{3}{8}</math></u>	$6\frac{1}{2}$ <u><math>\frac{2}{5}</math></u>

## Subtraction of Fractions—Continued

	a	b	c	d	e	f
IV. 1.	5	9	8	1	11	16
	$2\frac{3}{4}$	$1\frac{1}{6}$	$7\frac{1}{4}$	$\frac{7}{9}$	$8\frac{2}{3}$	$7\frac{4}{5}$
2.	1	3	13	8	14	17
	$\frac{4}{9}$	$2\frac{2}{4}$	$6\frac{5}{8}$	$7\frac{5}{6}$	$5\frac{3}{8}$	$9\frac{3}{4}$
V. 1.	$7\frac{1}{4}$	$5\frac{1}{8}$	$6\frac{4}{9}$	$1\frac{1}{8}$	$9\frac{1}{3}$	$6\frac{2}{5}$
	$3\frac{3}{4}$	$4\frac{7}{8}$	$5\frac{7}{9}$	$\frac{3}{8}$	$\frac{2}{3}$	$\frac{3}{5}$
2.	$1\frac{1}{12}$	$9\frac{1}{4}$	$7\frac{1}{6}$	$8\frac{1}{5}$	$10\frac{1}{9}$	$14\frac{2}{7}$
	$\frac{7}{12}$	$8\frac{3}{4}$	$4\frac{5}{6}$	$\frac{4}{5}$	$\frac{7}{9}$	$6\frac{5}{7}$
VI. 1.	$2\frac{1}{2}$	$5\frac{1}{4}$	$9\frac{1}{3}$	$6\frac{1}{2}$	$10\frac{2}{3}$	$16\frac{3}{4}$
	$1\frac{3}{4}$	$4\frac{3}{8}$	$\frac{5}{6}$	$\frac{7}{12}$	$1\frac{7}{9}$	$8\frac{7}{8}$
2.	$8\frac{1}{3}$	$1\frac{1}{2}$	$7\frac{1}{3}$	$5\frac{1}{4}$	$10\frac{1}{5}$	$14\frac{1}{2}$
	$1\frac{4}{6}$	$\frac{11}{12}$	$\frac{8}{9}$	$\frac{11}{12}$	$3\frac{7}{10}$	$6\frac{9}{16}$
VII. 1.	$7\frac{1}{2}$	$5\frac{1}{4}$	$9\frac{1}{3}$	$11\frac{1}{2}$	$13\frac{1}{3}$	$10\frac{5}{8}$
	$1\frac{2}{3}$	$4\frac{2}{3}$	$7\frac{3}{4}$	$6\frac{4}{5}$	$7\frac{1}{2}$	$\frac{2}{3}$
2.	$4\frac{1}{5}$	$8\frac{1}{9}$	$3\frac{1}{4}$	$14\frac{3}{4}$	$1\frac{1}{2}$	$14\frac{1}{6}$
	$\frac{1}{2}$	$\frac{5}{6}$	$\frac{5}{6}$	$8\frac{5}{6}$	$\frac{2}{3}$	$5\frac{3}{4}$

### Answers to Subtraction of Fractions

- I. 1. a.  $\frac{1}{5}$ , b.  $\frac{2}{3}$ , c.  $\frac{1}{4}$ , d.  $8\frac{1}{5}$ , e. 1, f.  $3\frac{1}{2}$ . 2. a.  $\frac{2}{9}$ , b.  $\frac{1}{4}$ , c.  $\frac{1}{5}$ , d. 6, e.  $4\frac{1}{4}$ , f.  $9\frac{1}{5}$ .
- II. 1. a.  $\frac{1}{6}$ , b.  $\frac{1}{5}$ , c.  $\frac{5}{16}$ , d.  $6\frac{2}{3}$ , e.  $4\frac{1}{2}$ , f.  $6\frac{1}{6}$ . 2. a.  $\frac{3}{10}$ , b.  $\frac{1}{16}$ , c.  $\frac{1}{4}$ , d.  $7\frac{1}{8}$ , e.  $5\frac{7}{16}$ , f.  $\frac{1}{9}$ .
- III. 1. a.  $\frac{7}{15}$ , b.  $\frac{1}{6}$ , c.  $\frac{5}{12}$ , d.  $4\frac{7}{24}$ , e.  $2\frac{1}{12}$ , f.  $1\frac{5}{24}$ . 2. a.  $\frac{1}{12}$ , b.  $\frac{11}{24}$ , c.  $\frac{4}{15}$ , d.  $7\frac{7}{12}$ , e.  $4\frac{1}{24}$ , f.  $6\frac{1}{10}$ .
- IV. 1. a.  $2\frac{1}{4}$ , b.  $7\frac{5}{6}$ , c.  $\frac{3}{4}$ , d.  $\frac{2}{9}$ , e.  $2\frac{1}{3}$ , f.  $8\frac{1}{5}$ . 2. a.  $\frac{5}{9}$ , b.  $\frac{1}{2}$ , c.  $6\frac{2}{3}$ , d.  $\frac{1}{6}$ , e.  $8\frac{5}{8}$ , f.  $7\frac{1}{4}$ .
- V. 1. a.  $3\frac{1}{2}$ , b.  $\frac{1}{4}$ , c.  $\frac{2}{3}$ , d.  $\frac{3}{4}$ , e.  $8\frac{2}{3}$ , f.  $5\frac{4}{5}$ . 2. a.  $\frac{1}{2}$ , b.  $\frac{1}{2}$ , c.  $2\frac{1}{3}$ , d.  $7\frac{2}{5}$ , e.  $9\frac{1}{3}$ , f.  $7\frac{1}{4}$ .
- VI. 1. a.  $\frac{3}{4}$ , b.  $\frac{7}{8}$ , c.  $8\frac{1}{2}$ , d.  $5\frac{11}{12}$ , e.  $8\frac{2}{3}$ , f.  $7\frac{7}{8}$ . 2. a.  $6\frac{2}{3}$ , b.  $\frac{7}{12}$ , c.  $6\frac{4}{9}$ , d.  $4\frac{1}{3}$ , e.  $6\frac{1}{2}$ , f.  $7\frac{15}{16}$ .
- VII. 1. a.  $5\frac{5}{6}$ , b.  $\frac{7}{12}$ , c.  $1\frac{7}{12}$ , d.  $4\frac{7}{10}$ , e.  $5\frac{5}{8}$ , f.  $9\frac{23}{24}$ . 2. a.  $3\frac{7}{10}$ , b.  $7\frac{5}{18}$ , c.  $2\frac{5}{12}$ , d.  $5\frac{11}{12}$ , e.  $\frac{5}{6}$ , f.  $8\frac{5}{12}$ .

## Multiplication of Fractions

	a	b	c	d	e
I. 1.	$5 \times \frac{1}{8}$	$6 \times \frac{3}{4}$	$7 \times \frac{1}{12}$	$9 \times \frac{3}{4}$	$6 \times \frac{1}{2}$
2.	$8 \times \frac{3}{4}$	$12 \times \frac{5}{6}$	$8 \times \frac{2}{3}$	$5 \times \frac{5}{6}$	$7 \times \frac{2}{3}$
3.	$4 \times \frac{5}{9}$	$9 \times \frac{3}{8}$	$12 \times \frac{11}{12}$	$16 \times \frac{5}{8}$	$24 \times \frac{5}{6}$
II. 1.	$\frac{4}{5} \times 10$	$\frac{9}{10} \times 30$	$\frac{7}{8} \times 2$	$\frac{5}{6} \times 9$	$\frac{11}{12} \times 4$
2.	$\frac{2}{3} \times 8$	$\frac{5}{6} \times 12$	$\frac{5}{12} \times 20$	$\frac{3}{4} \times 15$	$\frac{3}{8} \times 24$
3.	$\frac{3}{5} \times 6$	$\frac{1}{2} \times 7$	$\frac{1}{8} \times 6$	$\frac{2}{5} \times 12$	$\frac{3}{7} \times 8$
III. 1.	$\frac{1}{2} \times \frac{1}{4}$	$\frac{3}{4} \times \frac{5}{8}$	$\frac{1}{3} \times \frac{4}{5}$	$\frac{2}{3} \times \frac{4}{9}$	$\frac{5}{6} \times \frac{1}{3}$
2.	$\frac{3}{4} \times \frac{5}{6}$	$\frac{7}{8} \times \frac{2}{9}$	$\frac{2}{3} \times \frac{5}{6}$	$\frac{4}{5} \times \frac{9}{10}$	$\frac{5}{8} \times \frac{7}{10}$
3.	$\frac{2}{3} \times \frac{3}{8}$	$\frac{3}{8} \times \frac{4}{15}$	$\frac{7}{9} \times \frac{3}{14}$	$\frac{2}{5} \times \frac{15}{16}$	$\frac{4}{9} \times \frac{9}{10}$
IV. 1.	$\frac{2}{3} \times 1\frac{1}{2}$	$\frac{1}{2} \times 3\frac{1}{4}$	$\frac{4}{5} \times 2\frac{1}{2}$	$2\frac{1}{4} \times \frac{3}{4}$	$\frac{2}{3} \times 3\frac{1}{3}$
2.	$\frac{5}{6} \times 2\frac{1}{4}$	$2\frac{1}{3} \times \frac{3}{7}$	$\frac{4}{5} \times 1\frac{2}{3}$	$\frac{8}{9} \times 2\frac{1}{2}$	$\frac{4}{7} \times 2\frac{1}{3}$
3.	$4\frac{1}{2} \times 6\frac{2}{3}$	$\frac{3}{4} \times 5\frac{1}{2}$	$\frac{3}{4} \times 2\frac{2}{3}$	$1\frac{1}{4} \times \frac{4}{5}$	$3\frac{1}{3} \times \frac{3}{5}$
V. 1.	$\begin{array}{r} 27 \\ \underline{4\frac{2}{3}} \end{array}$	$\begin{array}{r} 36 \\ \underline{9\frac{3}{4}} \end{array}$	$\begin{array}{r} 51 \\ \underline{8\frac{1}{3}} \end{array}$	$\begin{array}{r} 14 \\ \underline{2\frac{3}{7}} \end{array}$	$\begin{array}{r} 35 \\ \underline{7\frac{4}{5}} \end{array}$
2.	$\begin{array}{r} 41\frac{1}{2} \\ \underline{5} \end{array}$	$\begin{array}{r} 36\frac{3}{4} \\ \underline{7} \end{array}$	$\begin{array}{r} 65\frac{1}{2} \\ \underline{8} \end{array}$	$\begin{array}{r} 87\frac{1}{2} \\ \underline{6} \end{array}$	$\begin{array}{r} 44\frac{2}{3} \\ \underline{9} \end{array}$
3.	$\begin{array}{r} 38 \\ \underline{4\frac{3}{4}} \end{array}$	$\begin{array}{r} 45\frac{3}{4} \\ \underline{9} \end{array}$	$\begin{array}{r} 67\frac{1}{2} \\ \underline{8} \end{array}$	$\begin{array}{r} 83 \\ \underline{6\frac{5}{8}} \end{array}$	$\begin{array}{r} 92 \\ \underline{6\frac{2}{3}} \end{array}$
	a	b	c	d	
VI. 1.	$4 \times \frac{2}{3} \times \frac{5}{6}$	$\frac{1}{2} \times \frac{3}{4} \times \frac{8}{9}$	$\frac{4}{5} \times \frac{2}{3} \times \frac{7}{8}$	$\frac{9}{10} \times \frac{2}{3} \times \frac{5}{8}$	
2.	$1\frac{1}{2} \times \frac{3}{4} \times 2\frac{1}{2}$	$\frac{5}{6} \times \frac{3}{4} \times 2\frac{3}{4}$	$8 \times \frac{5}{6} \times 1\frac{1}{4}$	$9 \times \frac{3}{4} \times \frac{6}{7}$	
3.	$2\frac{1}{4} \times 3\frac{1}{2} \times 1\frac{1}{3}$	$1\frac{1}{8} \times 1\frac{3}{4} \times 2\frac{2}{3}$	$\frac{3}{4} \times \frac{8}{9} \times 2\frac{1}{3}$	$3\frac{1}{3} \times 1\frac{1}{2} \times \frac{4}{5}$	

## Answers to Multiplication of Fractions

- I. 1. a.  $\frac{5}{8}$ , b.  $4\frac{1}{2}$ , c.  $\frac{7}{12}$ , d.  $6\frac{3}{4}$ , e. 3. 2. a. 6, b. 10, c.  $5\frac{1}{3}$ , d.  $4\frac{1}{6}$ , e.  $4\frac{2}{3}$ .  
3. a.  $2\frac{2}{9}$ , b.  $3\frac{3}{8}$ , c. 11, d. 10, e. 20.
- II. 1. a. 8, b. 27, c.  $1\frac{3}{4}$ , d.  $7\frac{1}{2}$ , e.  $3\frac{2}{9}$ . 2. a.  $5\frac{1}{3}$ , b. 10, c.  $8\frac{1}{8}$ , d.  $11\frac{1}{4}$ , e. 9.  
3. a.  $3\frac{3}{5}$ , b.  $3\frac{1}{2}$ , c.  $\frac{3}{4}$ , d.  $4\frac{4}{5}$ , e.  $3\frac{3}{7}$ .
- III. 1. a.  $\frac{1}{8}$ , b.  $\frac{15}{32}$ , c.  $\frac{4}{15}$ , d.  $\frac{8}{27}$ , e.  $\frac{5}{18}$ . 2. a.  $\frac{5}{8}$ , b.  $\frac{7}{36}$ , c.  $\frac{5}{9}$ , d.  $\frac{18}{25}$ , e.  $\frac{7}{16}$ .  
3. a.  $\frac{1}{4}$ , b.  $\frac{1}{10}$ , c.  $\frac{1}{6}$ , d.  $\frac{3}{8}$ , e.  $\frac{2}{5}$ .
- IV. 1. a. 1, b.  $1\frac{8}{9}$ , c. 2, d.  $1\frac{1}{16}$ , e.  $2\frac{2}{9}$ . 2. a.  $1\frac{7}{8}$ , b. 1, c.  $1\frac{1}{3}$ , d.  $2\frac{2}{5}$ , e.  $1\frac{1}{8}$ .  
3. a. 30, b.  $4\frac{1}{3}$ , c. 2, d. 1, e. 2.
- V. 1. a. 126, b. 351, c. 425, d. 34, e. 273. 2. a.  $207\frac{1}{2}$ , b.  $257\frac{1}{4}$ , c. 524,  
d. 525, e. 402. 3. a.  $180\frac{1}{2}$ , b.  $411\frac{3}{4}$ , c. 540, d.  $549\frac{7}{8}$ , e.  $613\frac{1}{3}$ .
- VI. 1. a.  $2\frac{2}{9}$ , b.  $\frac{1}{3}$ , c.  $\frac{7}{15}$ , d.  $\frac{3}{8}$ . 2. a.  $2\frac{1}{16}$ , b.  $1\frac{2}{32}$ , c.  $8\frac{1}{3}$ , d.  $5\frac{1}{14}$ . 3. a.  $10\frac{1}{2}$ ,  
b.  $4\frac{1}{2}$ , c.  $1\frac{5}{9}$ , d. 4.