

17F

- 1) $12\frac{4}{5}$
- 2) $12\frac{2}{7}$
- 3) $13\frac{5}{8}$
- 4) $\frac{7}{4}$
- 5) $\frac{17}{6}$
- 6) $\frac{19}{3}$
- 7) $1\frac{1}{4}$
- 8) $3\frac{5}{6}$
- 9) $2\frac{3}{4}$
- 10) $\frac{1}{2} \times \frac{3}{5} = \frac{3}{10}$
- 11) $\frac{12}{18} + \frac{3}{18} = \frac{12+3}{18} = \frac{15}{18} = \frac{5}{6}$
- 12) $\frac{4}{7} \times \frac{1}{4} = \frac{4}{28} = \frac{1}{7}$
- 13) $7 \times 7 \times 7 = 343$ cu. in.
- 14) $25 \times 25 \times 25 = 15,625$ cu. ft.
- 15) $41 \times 41 \times 41 = 68,921$ cu. ft.
- 16) $2 \times 2 \times 2 = 8$ cu. in.
 $8 \times 6 = 48$ cu. in.
- 17) yes
- 18) $2\frac{1}{5} + 3\frac{2}{5} = 5\frac{3}{5}$
- 19) $\frac{1}{2} \times \frac{1}{4} = \frac{1}{8}$ sq. mi.
- 20) $\frac{33}{77} > \frac{28}{77}$ so $\frac{3}{7} > \frac{4}{11}$

18A

- 1) done
- 2) done
- 3) $5\frac{6}{5} = 6\frac{1}{5}$
- 4) $4\frac{10}{8} = 5\frac{2}{8} = 5\frac{1}{4}$
- 5) $9\frac{6}{5} = 10\frac{1}{5}$
- 6) $6\frac{8}{6} = 7\frac{2}{6} = 7\frac{1}{3}$
- 7) $6\frac{5}{4} = 7\frac{1}{4}$
- 8) $12\frac{8}{8} = 13$
- 9) $7\frac{9}{7} = 8\frac{2}{7}$
- 10) $6\frac{2}{2} = 7$
- 11) $10\frac{4}{3} = 11\frac{1}{3}$
- 12) $12\frac{13}{9} = 13\frac{4}{9}$

18B

- 1) $16\frac{9}{6} = 17\frac{3}{6} = 17\frac{1}{2}$
- 2) $9\frac{7}{5} = 10\frac{2}{5}$
- 3) $7\frac{14}{8} = 8\frac{6}{8} = 8\frac{3}{4}$
- 4) $5\frac{4}{4} = 6$
- 5) $5\frac{10}{9} = 6\frac{1}{9}$
- 6) $14\frac{4}{3} = 15\frac{1}{3}$
- 7) $3\frac{11}{11} = 4$
- 8) $16\frac{12}{10} = 17\frac{2}{10} = 17\frac{1}{5}$
- 9) $4\frac{10}{7} = 5\frac{3}{7}$
- 10) $7\frac{3}{3} = 8$
- 11) $10\frac{8}{5} = 11\frac{3}{5}$
- 12) $13\frac{12}{8} = 14\frac{4}{8} = 14\frac{1}{2}$

18C

- 1) $7\frac{8}{8} = 8$
- 2) $11\frac{9}{6} = 12\frac{3}{6} = 12\frac{1}{2}$
- 3) $9\frac{15}{9} = 10\frac{6}{9} = 10\frac{2}{3}$
- 4) $7\frac{6}{5} = 8\frac{1}{5}$
- 5) $7\frac{12}{10} = 8\frac{2}{10} = 8\frac{1}{5}$
- 6) $16\frac{5}{4} = 17\frac{1}{4}$
- 7) $5\frac{13}{12} = 6\frac{1}{12}$
- 8) $18\frac{14}{11} = 19\frac{3}{11}$
- 9) $11\frac{12}{8} = 12\frac{4}{8} = 12\frac{1}{2}$
- 10) $10\frac{4}{4} = 11$
- 11) $12\frac{9}{6} = 13\frac{3}{6} = 13\frac{1}{2}$
- 12) $20\frac{13}{9} = 21\frac{4}{9}$

18D

- 1) $7\frac{9}{7} = 8\frac{2}{7}$
- 2) $23\frac{6}{5} = 24\frac{1}{5}$
- 3) $13\frac{11}{9} = 14\frac{2}{9}$
- 4) $\frac{16}{3}$
- 5) $\frac{65}{9}$
- 6) $\frac{19}{5}$
- 7) $5\frac{2}{5}$
- 8) $6\frac{3}{6} = 6\frac{1}{2}$
- 9) $3\frac{3}{10}$
- 10) done
- 11) $12 \times 4 \times 3 = 144$ cu. in.
- 12) $2 \times 2 \times 3 = 12$ cu. ft.
- 13) $12 \times 13 \times 8 = 1,248$ cu. ft.
- 14) $4\frac{5}{8} + 3\frac{7}{8} = 7\frac{12}{8} = 8\frac{4}{8} = 8\frac{1}{2}$ lbs.
- 15) 2×37
- 16) $16 \times 16 = 256$
- 17) $(\frac{1}{2})(10)(15) = 75$ sq. ft.
- 18) $3,885 \div 7 = 555$ miles

18E

- 1) $3\frac{6}{5} = 4\frac{1}{5}$
- 2) $10\frac{8}{9}$
- 3) $7\frac{9}{6} = 8\frac{3}{6} = 8\frac{1}{2}$
- 4) $\frac{15}{18} - \frac{6}{18} = \frac{9}{18} = \frac{1}{2}$
- 5) $\frac{16}{24} - \frac{3}{24} = \frac{13}{24}$
- 6) $\frac{15}{20} + \frac{16}{20} = \frac{31}{20} = 1\frac{11}{20}$
- 7) $\frac{5}{7} \times \frac{1}{2} = \frac{5}{14}$
- 8) $\frac{12}{20} \div \frac{15}{20} = \frac{12 \div 15}{1} = \frac{12}{15} = \frac{4}{5}$
- 9) $\frac{1}{4} \times \frac{5}{6} = \frac{5}{24}$
- 10) $3\frac{10}{16} = 3\frac{5}{8}$
- 11) $12 \times 14 \times 5 = 840$ cu. in.
- 12) $21 \times 9 \times 8 = 1,512$ cu. in.
- 13) $7 \times 6 \times 10 = 420$ cu. ft.
- 14) $20 \times 15 \times 6 = 1,800$ cu. ft.
- 15) $1,800 \times 56 = 100,800$ lbs.
- 16) 16: 2, 4, 8, 16
20: 2, 4, 5, 10, 20
GCF = 4
- 17) $32 + 32 = 64$ ft.
- 18) $5\frac{2}{3} + \frac{1}{3} = 5\frac{3}{3} = 6$ ft.

18F

- 1) $14\frac{6}{6} = 15$
- 2) $14\frac{12}{8} = 15\frac{4}{8} = 15\frac{1}{2}$
- 3) $15\frac{16}{10} = 16\frac{6}{10} = 16\frac{3}{5}$
- 4) $\frac{45}{63} - \frac{14}{63} = \frac{31}{63}$
- 5) $\frac{5}{40} + \frac{32}{40} = \frac{37}{40}$
- 6) $\frac{48}{56} - \frac{7}{56} = \frac{41}{56}$
- 7) $\frac{40}{48} \div \frac{42}{48} = \frac{40 \div 42}{1} = \frac{40}{42} = \frac{20}{21}$
- 8) $\frac{1}{2} \times \frac{3}{5} = \frac{3}{10}$
- 9) $\frac{12}{18} \div \frac{3}{18} = \frac{12 \div 3}{1} = 4$
- 10) $56 \div 7 = 8$; $8 \times 4 = 32$
- 11) $50 \div 5 = 10$; $10 \times 3 = 30$
- 12) $14 \div 2 = 7$; $7 \times 1 = 7$
- 13) $10 \times 15 \times 7 = 1,050$ cu. in.
- 14) $33 \times 19 \times 12 = 7,524$ cu. in.
- 15) $5 \times 4 \times 8 = 160$ cu. ft.
- 16) $25 \times 13 \times 8 = 2,600$ cu. ft. full
 $2,600 \div 2 = 1,300$ cu. ft. half full
- 17) $1,300 \times 56 = 72,800$ lbs.
- 18) yes
- 19) $\frac{1}{2} + \frac{1}{2} = \frac{2}{2} = 1$
 $\frac{1}{4} + \frac{1}{4} = \frac{2}{4} = \frac{1}{2}$
 $1 + \frac{1}{2} = 1\frac{1}{2}$ mi.
- 20) $\frac{4}{5} \div \frac{4}{1} = \frac{4}{5} \div \frac{20}{5} = \frac{4 \div 20}{1} = \frac{4}{20} = \frac{1}{5}$

19A

- 1) done
- 2) done
- 3) $5\frac{6}{5} - 2\frac{3}{5} = 3\frac{3}{5}$
- 4) $3\frac{9}{8} - 1\frac{5}{8} = 2\frac{4}{8} = 2\frac{1}{2}$
- 5) $1\frac{5}{4} - 1\frac{2}{4} = \frac{3}{4}$
- 6) $5\frac{8}{8} - 3\frac{7}{8} = 2\frac{1}{8}$
- 7) $6\frac{21}{16} - 2\frac{7}{16} = 4\frac{14}{16} = 4\frac{7}{8}$
- 8) $8\frac{3}{5} - 2\frac{3}{5} = 6$
- 9) $3\frac{7}{6} - 1\frac{5}{6} = 2\frac{2}{6} = 2\frac{1}{3}$
- 10) $8\frac{9}{8} - 2\frac{7}{8} = 6\frac{2}{8} = 6\frac{1}{4}$
- 11) $3\frac{3}{3} - \frac{1}{3} = 3\frac{2}{3}$
- 12) $6\frac{7}{5} - 6\frac{4}{5} = \frac{3}{5}$

19B

- 1) $13\frac{10}{7} - 2\frac{4}{7} = 11\frac{6}{7}$
- 2) $10\frac{9}{9} - 2\frac{8}{9} = 8\frac{1}{9}$
- 3) $7\frac{13}{10} - 5\frac{4}{10} = 2\frac{9}{10}$
- 4) $18\frac{8}{6} - 10\frac{3}{6} = 8\frac{5}{6}$
- 5) $2\frac{4}{3} - 1\frac{2}{3} = 1\frac{2}{3}$
- 6) $4\frac{7}{7} - 1\frac{4}{7} = 3\frac{3}{7}$
- 7) $4\frac{5}{4} - 2\frac{3}{4} = 2\frac{2}{4} = 2\frac{1}{2}$
- 8) $5\frac{6}{5} - 2\frac{3}{5} = 3\frac{3}{5}$
- 9) $3\frac{9}{8} - 1\frac{5}{8} = 2\frac{4}{8} = 2\frac{1}{2}$
- 10) $5\frac{13}{8} - 3\frac{7}{8} = 2\frac{6}{8} = 2\frac{3}{4}$
- 11) $7\frac{10}{10} - \frac{3}{10} = 7\frac{7}{10}$
- 12) $1\frac{5}{4} - 1\frac{3}{4} = \frac{2}{4} = \frac{1}{2}$