

13D

- 1) 2×13
- 2) $2 \times 2 \times 3 \times 5$
- 3) $2 \times 2 \times 2 \times 3$
- 4) $\frac{18}{24} = \frac{\cancel{2} \times \cancel{3} \times 3}{\cancel{2} \times 2 \times 2 \times \cancel{3}} = \frac{3}{4}$
- 5) $\frac{15}{30} = \frac{\cancel{3} \times 5}{2 \times \cancel{3} \times 5} = \frac{1}{2}$
- 6) $\frac{8}{32} + \frac{8}{32} = \frac{16}{32} + \frac{16}{16} = \frac{1}{2}$
- 7) $\frac{10}{16} - \frac{8}{16} = \frac{2}{16} + \frac{2}{2} = \frac{1}{8}$
- 8) $\frac{6}{21} + \frac{7}{21} = \frac{13}{21}$
- 9) $\frac{2}{12} + \frac{6}{12} = \frac{2+6}{1} = \frac{2}{6} + \frac{2}{2} = \frac{1}{3}$
- 10) $\frac{5}{9} \times \frac{3}{7} = \frac{15}{63} \div \frac{3}{3} = \frac{5}{21}$
- 11) $\frac{8}{11} \times \frac{3}{4} = \frac{24}{44} \div \frac{4}{4} = \frac{6}{11}$
- 12) done
- 13) $178 \frac{8}{53}$
- 14) $26 \frac{11}{189}$
- 15) $1/6 \times 12 = 2$
- 16) $\frac{3}{4} + \frac{1}{8} = \frac{24}{32} + \frac{4}{32} = \frac{28}{32} \div \frac{4}{4} = \frac{7}{8}$
- 17) $2,845 \div 5 = 569$
- 18) $528 \times 73 = 38,544$

13E

- 1) $3 \times 3 \times 3 \times 3$
- 2) $2 \times 3 \times 3 \times 5$
- 3) $3 \times 5 \times 5$
- 4) $\frac{8}{22} = \frac{\cancel{2} \times 2 \times 2}{\cancel{2} \times 11} = \frac{4}{11}$
- 5) $\frac{32}{48} = \frac{\cancel{2} \times \cancel{2} \times \cancel{2} \times \cancel{2} \times 2}{\cancel{2} \times \cancel{2} \times \cancel{2} \times \cancel{2} \times 3} = \frac{2}{3}$
- 6) $\frac{6}{12} + \frac{4}{12} = \frac{10}{12} + \frac{2}{2} = \frac{5}{6}$
- 7) $\frac{18}{27} - \frac{9}{27} = \frac{9}{27} + \frac{9}{9} = \frac{1}{3}$
- 8) $\frac{30}{50} + \frac{5}{50} = \frac{35}{50} \div \frac{5}{5} = \frac{7}{10}$
- 9) $\frac{16}{64} \div \frac{48}{64} = \frac{16 \div 48}{1} = \frac{16}{48} \div \frac{16}{16} = \frac{1}{3}$
- 10) $\frac{5}{9} \times \frac{2}{6} = \frac{10}{54} \div \frac{2}{2} = \frac{5}{27}$
- 11) $\frac{2}{5} \times \frac{3}{4} = \frac{6}{20} \div \frac{2}{2} = \frac{3}{10}$
- 12) $\frac{30}{48} < \frac{32}{48}$
- 13) $\frac{7}{21} > \frac{6}{21}$
- 14) $\frac{40}{80} = \frac{40}{80}$
- 15) $29 \frac{28}{38}$ or $29 \frac{14}{19}$
- 16) $122 \frac{2}{22}$ or $122 \frac{1}{11}$
- 17) $21 \frac{97}{235}$
- 18) $45 \times 365 = 16,425$
- 19) $\frac{12}{36} + \frac{15}{36} = \frac{27}{36}$
- 20) $\frac{27}{36}$ of 60: $\frac{27}{36} \times \frac{60}{1} = \frac{1,620}{36} = 45$ min.
 $3/4$ of 60: $60 \div 4 = 15$; $15 \times 3 = 45$
 The reduced fraction is easier to use.

13F

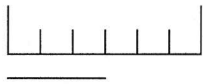
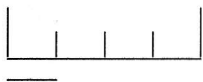
- 1) $2 \times 2 \times 2 \times 2 \times 2 \times 2$
- 2) $2 \times 2 \times 2 \times 2$
- 3) $3 \times 3 \times 5$
- 4) $\frac{81}{90} = \frac{\cancel{3} \times \cancel{3} \times 3 \times 3}{2 \times \cancel{3} \times \cancel{3} \times 5} = \frac{9}{10}$
- 5) $\frac{12}{18} = \frac{\cancel{2} \times 2 \times \cancel{3}}{\cancel{2} \times \cancel{3} \times 3} = \frac{2}{3}$
- 6) $\frac{18}{48} + \frac{8}{48} = \frac{26}{48} \div \frac{2}{2} = \frac{13}{24}$
- 7) $\frac{45}{50} - \frac{20}{50} = \frac{25}{50} \div \frac{25}{25} = \frac{1}{2}$
- 8) $\frac{12}{24} + \frac{6}{24} = \frac{18}{24} \div \frac{6}{6} = \frac{3}{4}$
- 9) $\frac{10}{50} + \frac{20}{50} = \frac{10+20}{1} = \frac{10}{20} + \frac{10}{10} = \frac{1}{2}$
- 10) $\frac{4}{7} \times \frac{2}{8} = \frac{8}{56} \div \frac{8}{8} = \frac{1}{7}$
- 11) $\frac{5}{12} \times \frac{3}{5} = \frac{15}{60} \div \frac{15}{15} = \frac{1}{4}$
- 12) $\frac{60}{110} < \frac{77}{110}$
- 13) $\frac{9}{36} < \frac{16}{36}$
- 14) $\frac{15}{36} > \frac{12}{36}$
- 15) $37 \frac{69}{96}$ or $37 \frac{23}{32}$
- 16) $98 \frac{38}{73}$
- 17) $56 \frac{111}{120}$ or $56 \frac{37}{40}$
- 18) $2,075 \div 25 = 83$
- 19) $\frac{6}{18} + \frac{3}{18} = \frac{9}{18} = \frac{1}{2}$
 $\frac{1}{2} + \frac{1}{8} = \frac{8}{16} + \frac{2}{16} = \frac{10}{16} = \frac{5}{8}$
- 20) $\frac{8}{8} - \frac{5}{8} = \frac{3}{8}$

14A

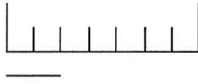
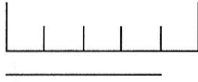
- 1) done
- 2) $\frac{7}{10}$
- 3) $\frac{2}{3}$
- 4) $\frac{3}{7}$
- 5) done
- 6)

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

14B

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

14C

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

14D

- 1) $\frac{7}{8}$
 2) $\frac{3}{6} = \frac{1}{2}$
 3) $\frac{5}{16}$
 4) $\frac{14}{16} = \frac{7}{8}$
 5) $2 \times 2 \times 7$
 6) 5×11
 7) $2 \times 2 \times 3 \times 7$
 8) $\frac{48}{64} =$
 $\frac{\cancel{2} \times \cancel{2} \times \cancel{2} \times \cancel{2} \times 3}{\cancel{2} \times \cancel{2} \times \cancel{2} \times \cancel{2} \times 2 \times 2} = \frac{3}{4}$
 9) done
 10) $20 \times 10 = 200$ sq. ft.
 11) $15 \times 7 = 105$ sq. yds.
 12) no
 13) yes
 14) 12: 2, 3, 4, 6, 12
 18: 2, 3, 6, 9, 18
 GCF = 6
 25: 5, 25
 50: 2, 5, 25
 GCF = 25
 16) $15 \times 13 = 195$ sq. ft.

14E

- 1) $\frac{2}{6} = \frac{1}{3}$
 2) $\frac{6}{7}$
 3) $\frac{10}{16} = \frac{5}{8}$
 4) $\frac{3}{16}$
 5) $2 \times 5 \times 7$
 6) $3 \times 3 \times 5$
 7) $2 \times 3 \times 5$
 8) $\frac{33}{63} = \frac{\cancel{3} \times 11}{\cancel{3} \times 3 \times 7} = \frac{11}{21}$
 9) $8 \times 5 = 40$ sq. in.
 10) $90 \times 45 = 4,050$ sq. ft.
 11) $28 \times 15 = 420$ sq. yds.
 12) no
 13) 21: 3, 7, 21
 42: 2, 3, 6, 7, 14, 21, 42
 GCF = 21
 14) $\frac{3}{4} \times \frac{1}{3} = \frac{3}{12} \div \frac{3}{3} = \frac{1}{4}$
 15) $\frac{8}{12} < \frac{9}{12}$ so $\frac{2}{3} < \frac{3}{4}$
 16) $\frac{9}{12} - \frac{8}{12} = \frac{1}{12}$ cup
 17) $15 + 13 + 15 + 13 = 56$ ft.
 18) $\frac{3}{4}$ of 56 = 42
 56 - 42 = 14 ft. needed

14F

- 1) $\frac{2}{3}$
 2) $\frac{4}{10} = \frac{2}{5}$
 3) $\frac{7}{16}$
 4) $\frac{16}{16} = 1$
 5) $2 \times 3 \times 11$
 6) $2 \times 2 \times 7$
 7) $2 \times 3 \times 3 \times 3$
 8) $\frac{75}{100} = \frac{3 \times \cancel{5} \times \cancel{5}}{2 \times 2 \times \cancel{5} \times \cancel{5}} = \frac{3}{4}$
 9) $3 \times 2 = 6$ sq. in.
 10) $11 \times 6 = 66$ sq. ft.
 11) $35 \times 19 = 665$ sq. yds.
 12) yes
 13) 24: 2, 3, 4, 6, 8, 12, 24
 36: 2, 3, 4, 6, 9, 12, 18, 36
 GCF = 12
 14) $\frac{18}{42} + \frac{7}{42} = \frac{25}{42}$ no
 15) $\frac{8}{12} + \frac{1}{6} = \frac{48}{72} + \frac{12}{72} =$
 $\frac{48 + 12}{72} = \frac{60}{72} = \frac{5}{6}$
 16) $36 \times 12 = 432$
 17) $2,160 \div 432 = 5$
 18) area