

3B

- 1)  $4/6$ ; four sixths
- 2)  $3/5$ ; three fifths
- 3)  $2/2$ ; two halves
- 4)  $2/4$ ; two fourths
- 5)  $4/4$
- 6)  $5/6$
- 7)  $4/5$
- 8)  $4/6$
- 9)  $2/4$
- 10)  $1/3$
- 11)  $1/4 + 1/4 = 2/4$
- 12)  $10/10 - 1/10 = 9/10$
- 13)  $2/5 + 2/5 = 4/5$   
 $5/5 - 4/5 = 1/5$
- 14)  $5/6 - 2/6 = 3/6$

3C

- 1)  $1/3 + 2/3 = 3/3$   
three thirds
- 2)  $6/6 - 3/6 = 3/6$   
three sixths
- 3)  $4/5$ ; four fifths
- 4)  $1/4$ ; one fourth
- 5) done
- 6)  $5/5$
- 7)  $7/7$
- 8)  $1/6$
- 9)  $1/8$
- 10)  $5/10$
- 11)  $3/8 + 1/8 = 4/8$  tsp.
- 12)  $3/12 + 2/12 = 5/12$
- 13)  $12/12 - 5/12 = 7/12$
- 14)  $9/10 - 5/10 = 4/10$

3D

- 1)  $1/4 + 1/4 = 2/4$   
two fourths
- 2)  $5/6 - 1/6 = 4/6$   
four sixths
- 3)  $2/2$
- 4)  $9/10$
- 5)  $4/6$
- 6)  $3/6$
- 7)  $1/4$
- 8)  $2/9$
- 9)  $10 \div 5 = 2$   
 $2 \times 4 = 8$
- 10)  $40 \div 8 = 5$   
 $5 \times 5 = 25$
- 11)  $49 \div 7 = 7$   
 $7 \times 2 = 14$
- 12) done
- 13)  $3 + 4 + 5 = 12'$
- 14)  $54 + 39 + 78 = 171'$
- 15)  $4/9 + 1/9 = 5/9$
- 16)  $3/8 + 2/8 = 5/8$   
 $8/8 - 5/8 = 3/8$
- 17)  $1/2$  of  $16 = 8$
- 18)  $5/6$  of  $24 = 20$

3E

- 1)  $3/5$ ; three fifths
- 2)  $1/3$ ; one third
- 3)  $2/5$
- 4)  $4/4$
- 5)  $7/8$
- 6)  $3/5$
- 7)  $2/6$
- 8)  $5/10$
- 9)  $12 \div 4 = 3$   
 $3 \times 3 = 9$
- 10)  $40 \div 5 = 8$   
 $8 \times 2 = 16$
- 11)  $14 \div 7 = 2$   
 $2 \times 5 = 10$
- 12)  $6 + 6 + 10 = 22'$
- 13)  $28 + 16 + 28 + 16 = 88$  yds
- 14)  $17 + 17 + 17 + 17 = 68''$
- 15)  $3/8 + 4/8 = 7/8$
- 16)  $2/4 + 1/4 = 3/4$   
 $4/4 - 3/4 = 1/4$
- 17) 1 flower bed:  
 $6 + 8 + 12 = 26'$   
 $26 \times 2 = 52'$
- 18)  $2/5 + 1/5 = 3/5$
- 19)  $3/5$  of  $10 = 6$  eaten  
 $10 - 6 = 4$  left
- 20)  $\$3.15 + \$0.95 + \$1.25 = \$5.35$

3F

- 1)  $3/6 + 2/6 = 5/6$   
five sixths
- 2)  $4/4 - 2/4 = 2/4$   
two fourths
- 3)  $2/3$
- 4)  $3/5$
- 5)  $7/11$
- 6)  $1/9$
- 7)  $5/7$
- 8)  $2/3$
- 9)  $28 \div 7 = 4$   
 $4 \times 3 = 12$
- 10)  $27 \div 3 = 9$   
 $9 \times 1 = 9$
- 11)  $36 \div 4 = 9$   
 $9 \times 3 = 27$
- 12)  $63 + 87 + 48 = 198'$
- 13)  $35 + 18 + 35 + 18 = 106$  yds
- 14)  $81 + 81 + 81 + 81 = 324''$
- 15)  $1/5 + 3/5 = 4/5$
- 16)  $4/5$  of  $10 = 8$   
 $10 - 8 = 2$
- 17)  $3/3 - 1/3 = 2/3$
- 18)  $16 + 16 + 16 = 48'$
- 19)  $\$17.45 - \$3.19 = \$14.26$
- 20)  $1/6$  of  $12 = 2$

4A

- 1) done
- 2)  $\frac{1}{5} = \frac{2}{10} = \frac{3}{15} = \frac{4}{20} = \frac{5}{25}$   
one fifth=two tenths=three  
fifteenths=four twentieths =  
five twenty-fifths
- 3)  $\frac{2}{3} = \frac{4}{6} = \frac{6}{9} = \frac{8}{12} = \frac{10}{15}$   
two thirds = four sixths = six  
ninths = eight twelfths = ten  
fifteenths
- 4)  $\frac{3}{6} = \frac{6}{12} = \frac{9}{18} = \frac{12}{24} = \frac{15}{30}$   
three sixths=six twelfths=  
nine eighteenths=twelve  
twenty- fourths=fifteen  
thirtieths
- 5) done
- 6)  $\frac{3}{5} = \frac{6}{10} = \frac{9}{15} = \frac{12}{20}$

4B

- 1)  $\frac{3}{4} = \frac{6}{8} = \frac{9}{12} = \frac{12}{16} = \frac{15}{20}$   
 three fourths = six eighths =  
 nine twelfths = twelve  
 sixteenths = fifteen twentieths
- 2)  $\frac{2}{2} = \frac{4}{4} = \frac{6}{6} = \frac{8}{8} = \frac{10}{10}$   
 two halves = four fourths =  
 six sixths = eight eighths =  
 ten tenths
- 3)  $\frac{4}{5} = \frac{8}{10} = \frac{12}{15} = \frac{16}{20} = \frac{20}{25}$   
 four fifths = eight tenths =  
 twelve fifteenths =  
 sixteen twentieths =  
 twenty twenty-fifths
- 4)  $\frac{1}{3} = \frac{2}{6} = \frac{3}{9} = \frac{4}{12}$
- 5)  $\frac{2}{4} = \frac{4}{8} = \frac{6}{12} = \frac{8}{16}$
- 6)  $\frac{5}{6} = \frac{10}{12} = \frac{15}{18} = \frac{20}{24}$
- 7)  $\frac{3}{3} = \frac{6}{6} = \frac{9}{9} = \frac{12}{12}$
- 8)  $\frac{1}{3} = \frac{2}{6}$

4C

- 1)  $\frac{1}{6} = \frac{2}{12} = \frac{3}{18} = \frac{4}{24} = \frac{5}{30}$   
 one sixth = two twelfths =  
 three eighteenthths = four  
 twenty-fourths = five  
 thirtieths
- 2)  $\frac{2}{5} = \frac{4}{10} = \frac{6}{15} = \frac{8}{20} = \frac{10}{25}$   
 two fifths = four tenths = six  
 fifteenths = eight twentieths =  
 ten twenty-fifths
- 3)  $\frac{5}{6} = \frac{10}{12} = \frac{15}{18} = \frac{20}{24} = \frac{25}{30}$   
 five sixths = ten twelfths =  
 fifteen eighteenthths = twenty  
 twenty-fourths = twenty-five  
 thirtieths
- 4)  $\frac{3}{4} = \frac{6}{8} = \frac{9}{12} = \frac{12}{16}$
- 5)  $\frac{1}{5} = \frac{2}{10} = \frac{3}{15} = \frac{4}{20}$
- 6)  $\frac{4}{5} = \frac{8}{10} = \frac{12}{15} = \frac{16}{20}$
- 7)  $\frac{2}{3} = \frac{4}{6} = \frac{6}{9} = \frac{8}{12}$
- 8)  $\frac{1}{4} = \frac{2}{8}$

4D

- 1)  $\frac{4}{4} = \frac{8}{8} = \frac{12}{12} = \frac{16}{16} = \frac{20}{20}$   
 four fourths = eight  
 eighths = twelve  
 twelfths = sixteen  
 sixteenths = twenty  
 twentieths
- 2)  $\frac{1}{4} = \frac{2}{8} = \frac{3}{12} = \frac{4}{16}$
- 3)  $\frac{1}{5} = \frac{2}{10} = \frac{3}{15} = \frac{4}{20}$
- 4)  $\frac{2}{6} = \frac{4}{12} = \frac{6}{18} = \frac{8}{24}$
- 5)  $\frac{3}{3} = \frac{6}{6} = \frac{9}{9} = \frac{12}{12}$
- 6) 5/6
- 7) 2/7
- 8) 2/4
- 9)  $36 \div 6 = 6$   
 $6 \times 1 = 6$
- 10)  $32 \div 8 = 4$   
 $4 \times 5 = 20$
- 11)  $81 \div 9 = 9$   
 $9 \times 3 = 27$
- 12) done
- 13) 176
- 14) 3,936
- 15) 2
- 16)  $\frac{1}{2} = \frac{4}{8}$  yes
- 17) 3/4 of \$36:  
 $36 \div 4 = 9$   
 $9 \times 3 = \$27$
- 18)  $2/7 + 3/7 = 5/7$   
 $7/7 - 5/7 = 2/7$

4E

- 1)  $\frac{1}{3} = \frac{2}{6} = \frac{3}{9} = \frac{4}{12} = \frac{5}{15}$   
 one third = two sixths =  
 three ninths = four  
 twelfths = five fifteenths
- 2)  $\frac{4}{6} = \frac{8}{12} = \frac{12}{18} = \frac{16}{24}$
- 3)  $\frac{2}{5} = \frac{4}{10} = \frac{6}{15} = \frac{8}{20}$
- 4)  $\frac{1}{2} = \frac{2}{4} = \frac{3}{6} = \frac{4}{8}$
- 5)  $\frac{1}{3} = \frac{2}{6} = \frac{3}{9} = \frac{4}{12}$
- 6) 4/4
- 7) 4/9
- 8) 3/8
- 9)  $49 \div 7 = 7$   
 $7 \times 4 = 28$
- 10)  $45 \div 5 = 9$   
 $9 \times 3 = 27$
- 11)  $12 \div 2 = 6$   
 $6 \times 1 = 6$
- 12) 264
- 13) 299
- 14) 4,455
- 15)  $\frac{2}{3} = \frac{4}{6}$
- 16) 2/3 of 18:  
 $18 \div 3 = 6$   
 $6 \times 2 = 12$
- 17)  $\frac{1}{2} = \frac{2}{4}$
- 18)  $1/4 + 2/4 = 3/4$
- 19)  $6/6 - 1/6 = 5/6$
- 20) blue: 1/6 of 12  
 $12 \div 6 = 2$   
 red:  $12 - 2 = 10$

4F

- 1)  $\frac{1}{2} = \frac{2}{4} = \frac{3}{6} = \frac{4}{8} = \frac{5}{10}$   
 one half = two fourths =  
 three sixths = four  
 eighths = five tenths
- 2)  $\frac{1}{6} = \frac{2}{12} = \frac{3}{18} = \frac{4}{24}$
- 3)  $\frac{3}{5} = \frac{6}{10} = \frac{9}{15} = \frac{12}{20}$
- 4)  $\frac{1}{7} = \frac{2}{14} = \frac{3}{21} = \frac{4}{28}$
- 5)  $\frac{3}{8} = \frac{6}{16} = \frac{9}{24} = \frac{12}{32}$
- 6) 1/3
- 7) 4/5
- 8) 1/10
- 9)  $60 \div 10 = 6$   
 $6 \times 1 = 6$
- 10)  $16 \div 8 = 2$   
 $2 \times 2 = 4$
- 11)  $9 \div 3 = 3$   
 $3 \times 3 = 9$
- 12) 132
- 13) 168
- 14) 9,503
- 15)  $\frac{1}{7} = \frac{2}{14}$
- 16) 2/14 of 14 = 2 pounds
- 17)  $11 \times 13 = 143$
- 18)  $4 + 4 + 4 + 4 = 16'$
- 19)  $3/8 + 1/8 = 4/8$  done  
 $8/8 - 4/8 = 4/8$  to go
- 20) 4/8 of 64:  
 $64 \div 8 = 8$   
 $8 \times 4 = 32$