

Test 29

- 1) $\frac{5}{5} = \frac{100}{100} = 100\%$
- 2) $\frac{3}{5} = \frac{60}{100} = 60\%$
- 3) $\frac{4}{5} = \frac{80}{100} = .80 = 80\%$
- 4) $\frac{3}{4} = \frac{75}{100} = .75 = 75\%$
- 5) $\frac{3}{5}Y + 2 = 26$
 $\frac{3}{5}Y = 24$
 $\frac{5}{3} \cdot \frac{3}{5}Y = \frac{24}{1} \cdot \frac{5}{3}$
 $Y = \frac{120}{3} = 40$
- 6) $\frac{3}{5}(40) + 2 = 26$
 $\frac{3}{5}\left(\frac{40}{1}\right) + 2 = 26$
 $\frac{120}{5} + 2 = 26$
 $24 + 2 = 26$
 $26 = 26$
- 7) $6\frac{7}{5} - 2\frac{4}{5} = 4\frac{3}{5}$
- 8) $8\frac{4}{4} - 6\frac{3}{4} = 2\frac{1}{4}$
- 9) $10\frac{72}{80} + 4\frac{30}{80} = 14\frac{102}{80} =$
 $15\frac{22}{80} = 15\frac{11}{40}$

- 10) 10
- 11) 14
- 12) 22
- 13) 35
- 14) III
- 15) XVII
- 16) XXV
- 17) XIX
- 18) $\$15 + \$10 + \$8 + \$25 = \$58$
 $\$58 \div 4 = \$14\frac{2}{4} = \$14\frac{1}{2}$
- 19) $A = \frac{22}{7}(14^2) = \frac{22}{7} \cdot \frac{196}{1} =$
 $\frac{616}{1} = 616$ sq. in.
 $C = \frac{2}{1} \cdot \frac{22}{7} \cdot \frac{14^2}{1} = \frac{88}{1} = 88$ in.
- 20) $\frac{1}{2} \times \frac{16}{1} \cdot \frac{23}{4} = \frac{92}{1} = 46$ sq. ft.

Test 30

- 1) $\frac{4}{9}W + \frac{1}{3} = \frac{2}{3}$
 $\frac{4}{9}W = \frac{1}{3}$
 $\frac{9}{4} \cdot \frac{4}{9}W = \frac{1}{3} \cdot \frac{9}{4}$
 $W = \frac{9}{12} = \frac{3}{4}$
- 2) $\frac{4}{9}\left(\frac{3}{4}\right) + \frac{1}{3} = \frac{2}{3}$
 $\frac{12}{36} + \frac{1}{3} = \frac{2}{3}$
 $\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$
 $\frac{2}{3} = \frac{2}{3}$
- 3) $\frac{1}{2}K - \frac{3}{4} = 4\frac{1}{4}$
 $\frac{1}{2}K = 5$
 $\frac{2}{1} \cdot \frac{1}{2}K = 5 \cdot \frac{2}{1}$
 $K = 10$
- 4) $\frac{1}{2}(10) - \frac{3}{4} = 4\frac{1}{4}$
 $5 - \frac{3}{4} = 4\frac{1}{4}$
 $4\frac{1}{4} = 4\frac{1}{4}$
- 5) $\frac{1}{5} = \frac{20}{100} = .20 = 20\%$
- 6) $\frac{1}{4} = \frac{25}{100} = .25 = 25\%$
- 7) $\frac{15}{8} + \frac{5}{8} = \frac{15+5}{1} = 3$
- 8) $\frac{2}{8} \times \frac{16}{5} \times \frac{26}{5} = \frac{104}{5} = 20\frac{4}{5}$
- 9) $8\frac{12}{18} - 4\frac{15}{18} = 7\frac{30}{18} - 4\frac{15}{18} =$
 $3\frac{15}{18} = 3\frac{5}{6}$
- 10) $11\frac{9}{18} + 6\frac{10}{18} = 17\frac{19}{18} = 18\frac{1}{18}$
- 11) 51
- 12) 115
- 13) 1,600
- 14) XI
- 15) CCC
- 16) MDCC
- 17) $5,280 \times 2 = 10,560$
- 18) $2,000 \times 3 = 6,000$
- 19) $\frac{15}{1} \times \frac{19^5}{1} \times \frac{7}{2} = 525$ cu. ft.
- 20) $8X - 8 = 40$
 $8X = 48$
 $\frac{1}{8} \cdot 8X = 48 \cdot \frac{1}{8}$
 $X = 6$