

Unit Test III

- 1) $3\frac{3}{8} + 4\frac{1}{8} = 7\frac{4}{8} = 7\frac{1}{2}$
- 2) $7\frac{3}{5} + 4\frac{4}{5} = 11\frac{7}{5} = 12\frac{2}{5}$
- 3) $15\frac{4}{14} + 11\frac{7}{14} = 26\frac{11}{14}$
- 4) $8\frac{15}{18} + 5\frac{12}{18} = 13\frac{27}{18} = 14\frac{9}{18} = 14\frac{1}{2}$
- 5) $9\frac{7}{8} - 3\frac{5}{8} = 6\frac{2}{8} = 6\frac{1}{4}$
- 6) $2\frac{5}{5} - 1\frac{2}{5} = 1\frac{3}{5}$
- 7) $35\frac{3}{12} - 21\frac{8}{12} = 34\frac{15}{12} - 21\frac{8}{12} = 13\frac{7}{12}$
- 8) $7\frac{7}{42} - 6\frac{18}{42} = 6\frac{49}{42} - 6\frac{18}{42} = \frac{31}{42}$
- 9) $48 \div 16 = 3$ lbs.
- 10) $23 \div 2 = 11\frac{1}{2}$ qts.
- 11) $9 \times 3 = 27$ ft.
- 12) $4 \times 16 = 64$ oz.
- 13) $16 \times 2 = 32$ pts.
- 14) $20 \div 4 = 5$ gal
- 15) $\frac{3}{6} \div \frac{1}{2} = \frac{3}{6} \times \frac{2}{1} = \frac{6}{6} = 1$
- 16) $\frac{6}{12} + \frac{6}{12} = \frac{6+6}{1} = 1$
- 17) $\frac{5}{8} + \frac{2}{3} = \frac{5}{8} \times \frac{3}{2} = \frac{15}{16}$
- 18) $\frac{15}{24} + \frac{16}{24} = \frac{15+16}{1} = \frac{15}{16}$
- 19) $\frac{19}{3} + \frac{19}{8} = \frac{19}{3} \times \frac{8}{19} = \frac{152}{57} = \frac{8}{3} = 2\frac{2}{3}$
- 20) $\frac{13}{5} + \frac{19}{10} = \frac{13}{5} \times \frac{10}{19} = \frac{130}{95} = \frac{26}{19} = 1\frac{7}{19}$
- 21) $\frac{35}{6} + \frac{5}{6} = \frac{35}{6} \times \frac{6}{5} = \frac{210}{30} = 7$
- 22) $\frac{7}{2} + \frac{10}{7} = \frac{7}{2} \times \frac{7}{10} = \frac{49}{20} = 2\frac{9}{20}$
- 23) $\frac{1}{8}$
- 24) $15 \times 10 \times 6 = 900$ cu. ft.
- 25) $\frac{9}{2} + \frac{8}{1} = \frac{9}{2} \times \frac{1}{8} = \frac{9}{16}$
- 26) $2\frac{6}{18} + 1\frac{15}{18} = 3\frac{21}{18} = 4\frac{3}{18} = 4\frac{1}{6}$ mi.
- 27) $5\frac{3}{6} - 2\frac{4}{6} = 4\frac{9}{6} - 2\frac{4}{6} = 2\frac{5}{6}$
- 28) 25

Test 24

- 1) $1/10 \cdot 10J = 200 \cdot 1/10$
 $J = 20$
- 2) $10(20) = 200$
 $200 = 200$
- 3) $1/6 \cdot 6U = 24 \cdot 1/6$
 $U = 4$
- 4) $6(4) = 24$
 $24 = 24$
- 5) $1/5 \cdot 5K = 95 \cdot 1/5$
 $K = 19$
- 6) $5(19) = 95$
 $95 = 95$
- 7) $\frac{1}{3} + \frac{2}{5} = \frac{1}{3} \times \frac{5}{5} = \frac{5}{6}$
- 8) $\frac{5}{15} + \frac{6}{15} = \frac{5+6}{1} = \frac{5}{6}$
- 9) $\frac{5}{4} + \frac{7}{2} = \frac{5}{4} \times \frac{2}{2} = \frac{10}{8} = \frac{5}{4}$
- 10) $\frac{25}{6} + \frac{24}{5} = \frac{25}{6} \times \frac{5}{24} = \frac{125}{144}$
- 11) $2\frac{4}{3} - 1\frac{2}{3} = 1\frac{2}{3}$
- 12) $8\frac{8}{12} + 5\frac{9}{12} = 13\frac{17}{12} = 14\frac{5}{12}$
- 13) $4\frac{2}{12} - 1\frac{6}{12} = 3\frac{14}{12} - 1\frac{6}{12} = 2\frac{8}{12} = 2\frac{2}{3}$
- 14) $\frac{2}{3} \times \frac{3}{5} = \frac{6}{15} = \frac{2}{5}$
- 15) $\frac{2}{7} \times \frac{3}{4} = \frac{6}{28} = \frac{3}{14}$
- 16) $\frac{5}{8} \times \frac{1}{3} = \frac{5}{24}$
- 17) $6 \times 12 = 72$ in.
- 18) $3J = 120; J = 40$
- 19) $1/2 \times 12 = 6$ in.
- 20) $A = 2/3 \times 2/3 = 4/9$ sq. mi.
 $P = \frac{2}{3} + \frac{2}{3} + \frac{2}{3} + \frac{2}{3} = \frac{8}{3} = 2\frac{2}{3}$ mi.

Test 25

- 1) $\frac{18}{18} \times \frac{14}{14} \times \frac{8}{7} = \frac{1}{7}$
- 2) $\frac{3}{18} \times \frac{1}{5} \times \frac{1}{4} = \frac{3}{360} = \frac{1}{120}$
- 3) $\frac{1}{8} \times \frac{8}{7} \times \frac{4}{7} = \frac{4}{49}$
- 4) $\frac{6}{5} \times \frac{5}{8} \times \frac{3}{2} = \frac{3}{2} = 1\frac{1}{2}$
- 5) $1/7 \cdot 7L = 77 \cdot 1/7$
 $L = 11$
- 6) $7(11) = 77$
 $77 = 77$
- 7) $1/13 \cdot 13Y = 195 \cdot 1/13$
 $Y = 15$
- 8) $13(15) = 195$
 $195 = 195$
- 9) $\frac{25}{16} + \frac{5}{8} = \frac{25}{16} + \frac{10}{16} = \frac{35}{16} = 2\frac{3}{16}$
- 10) $\frac{19}{3} + \frac{19}{8} = \frac{19}{3} \times \frac{8}{8} = \frac{152}{24} + \frac{57}{24} = \frac{209}{24} = 8\frac{17}{24}$
- 11) $5\frac{13}{8} - 3\frac{7}{8} = 2\frac{6}{8} = 2\frac{3}{4}$
- 12) $11\frac{5}{4} - 11\frac{3}{4} = \frac{2}{4} = \frac{1}{2}$
- 13) $1\frac{1}{3} + 1\frac{2}{3} = 2\frac{3}{3} = 3$
- 14) $2 \times 2,000 = 4,000$ lbs.
- 15) $24 \div 12 = 2$ ft.
- 16) $1/4$ of 2,000 = 500 lbs.
- 17) $\frac{3}{2} \times \frac{2000}{1} = \frac{6000}{2} = 3,000$ lbs.
- 18) $\frac{1}{28} \times \frac{1}{10} \times \frac{14}{5} = \frac{1}{20}$
- 19) $\frac{13}{2} \div \frac{13}{1} = \frac{13}{2} \times \frac{1}{13} = \frac{1}{2}$ dozen
 $1/2$ of 12 = 6 donuts per person
- 20) 60