

Test 26

- 1) $6B + 10 = 40$
 $6B = 30$
 $1/6 \cdot 6B = 30 \cdot 1/6$
 $B = 5$
- 2) $6(5) + 10 = 40$
 $30 + 10 = 40$
 $40 = 40$
- 3) $8N - 13 = 3$
 $8N = 16$
 $1/8 \cdot 8N = 16 \cdot 1/8$
 $N = 2$
- 4) $8(2) - 13 = 3$
 $16 - 13 = 3$
 $3 = 3$
- 5) $6C + 8 = 50$
 $6C = 42$
 $1/6 \cdot 6C = 42 \cdot 1/6$
 $C = 7$
- 6) $6(7) + 8 = 50$
 $42 + 8 = 50$
 $50 = 50$
- 7) $\frac{6}{5} \times \frac{10^2}{3} \times \frac{3}{11} = \frac{12}{11} = 1\frac{1}{11}$
- 8) $\frac{1}{2} \times \frac{5}{18} \times \frac{24}{7} = \frac{5}{7}$
- 9) $\frac{1}{5} \div \frac{8}{25} = \frac{1}{5} \times \frac{25}{8} = \frac{5}{8}$
- 10) $\frac{20}{3} \div \frac{20}{7} = \frac{20}{3} \times \frac{7}{20} = \frac{7}{3} = 2\frac{1}{3}$
- 11) $3 \times 5,280 = 15,840$
- 12) $7 \times 16 = 112 \text{ oz.}$
- 13) $15/4 \times 12 = 180/4 = 45 \text{ in.}$
- 14) $2 \frac{1}{4} + 3 \frac{1}{4} = 5 \frac{2}{4} = 5 \frac{1}{2}$
- 15) no
- 16) $2 \times 2 \times 2 \times 2 \times 3$
- 17) 18: 2, 3, 6, 9, 18
 24 : 2, 3, 4, 6, 8, 12, 24
 $\text{GCF} = 6$
- 18) $3/2 \times 3/2 = 9/4 = 2 \frac{1}{4} \text{ sq. mi.}$
- 19) $16 \times 16 = 256$
- 20) 30

Test 27

- 1) $\frac{22}{7} (35^2) = \frac{22}{7} \times \frac{1225}{1} = \frac{3850}{1} = 3,850 \text{ sq. in.}$
- 2) $\frac{2}{1} \times \frac{22}{X} \times \frac{35}{1} = \frac{220}{1} = 220 \text{ in.}$
- 3) $\frac{22}{7} (5^2) = \frac{22}{7} \times \frac{25}{1} = \frac{550}{7} = 78 \frac{4}{7} \text{ sq. ft.}$
- 4) $\frac{2}{1} \times \frac{22}{7} \times \frac{5}{1} = \frac{220}{7} = 31 \frac{3}{7} \text{ ft.}$
- 5) $\frac{22}{7} (63^2) = \frac{22}{7} \times \frac{3969}{1} = \frac{12474}{1} = 12,474 \text{ sq. in.}$
- 6) $\frac{2}{1} \times \frac{22}{X} \times \frac{89^9}{1} = \frac{396}{1} = 396 \text{ in.}$
- 7) $\frac{22}{7} (3^2) = \frac{22}{7} \times \frac{9}{1} = \frac{198}{7} = 28 \frac{2}{7} \text{ sq. ft.}$
- 8) $\frac{2}{1} \times \frac{22}{7} \times \frac{3}{1} = \frac{132}{7} = 18 \frac{6}{7} \text{ ft.}$
- 9) $5R - 17 = 38$
 $5R = 55$
 $1/5 \cdot 5R = 55 \cdot 1/5$
 $R = 11$
- 10) $5(11) - 17 = 38$
 $55 - 17 = 38$
 $38 = 38$
- 11) $\frac{2}{3} \times \frac{3}{2} = \frac{2}{1} = 2$
- 12) $\frac{5}{3} \times \frac{7}{8} \times \frac{24}{10} = \frac{7}{2} = 3 \frac{1}{2}$
- 13) $\frac{7}{10} \div \frac{7}{12} = \frac{7}{10} \times \frac{12}{7} = \frac{6}{5} = 1 \frac{1}{5}$
- 14) $\frac{22}{5} \div \frac{7}{9} = \frac{22}{5} \times \frac{9}{7} = \frac{198}{35} = 5 \frac{23}{35}$
- 15) 19 qts. < 20 qts.
- 16) 6,000 lbs. > 5,000 lbs.
- 17) 3,520 ft. < 3,720 ft.
- 18) $8 \frac{4}{6} - 6 \frac{3}{6} = 2 \frac{1}{6} \text{ mi.}$
- 19) $13/6 \times 5,280 = 68,640/6 = 11,440 \text{ ft.}$
- 20) $\frac{1}{2} \times \frac{4}{1} \times \frac{5}{2} = \frac{5}{1} = 5 \text{ sq. in.}$

Test 28

- 1) $\frac{4}{15}W + 7 = 19$
 $\frac{4}{15}W = 12$
 $\frac{15}{4} \cdot \frac{4}{15}W = \frac{12}{1} \cdot \frac{15}{4}$
 $W = \frac{180}{4}$
 $W = 45$
- 2) $\frac{4}{15}(45) + 7 = 19$
 $\frac{4}{15} \left(\frac{45}{1} \right) + 7 = 19$
 $\frac{180}{15} + 7 = 19$
 $12 + 7 = 19$
 $19 = 19$
- 3) $\frac{2}{3}R - 5 = 5$
 $\frac{2}{3}R = 10$
 $\frac{3}{2} \cdot \frac{2}{3}R = \frac{10}{1} \cdot \frac{3}{2}$
 $R = \frac{30}{2} = 15$
- 4) $\frac{2}{3}(15) - 5 = 5$
 $\frac{2}{3} \left(\frac{15}{1} \right) - 5 = 5$
 $\frac{30}{3} - 5 = 5$
 $10 - 5 = 5$
 $5 = 5$
- 5) $\frac{2}{1} \cdot \frac{1}{2}X = \frac{4}{1} \cdot \frac{2}{1}$
 $X = \frac{8}{1} = 8$
- 6) $\frac{1}{2} \left(\frac{8}{1} \right) = 4$
 $\frac{8}{2} = 4$
 $4 = 4$
- 7) $\frac{5}{8} \times \frac{8}{5} = \frac{5}{1} = 5$
- 8) $\frac{4}{5} \times \frac{5}{3} \times \frac{15}{8} = \frac{5}{1} = 5$
- 9) $\frac{11}{18} \div \frac{3}{8} = \frac{11}{18} \times \frac{8}{3} = \frac{44}{27} = 1 \frac{17}{27}$
- 10) $\frac{9}{2} \div \frac{5}{2} = \frac{9 \div 5}{1} = \frac{9}{5} = 1 \frac{4}{5}$
- 11) 48 oz. > 32 oz.
- 12) 1,056 ft. = 1,056 ft.
- 13) 1 qt. < 2 qts.
- 14) $2 + 4 + 6 + 8 = 20$
 $20 \div 4 = 5$
- 15) $1 + 3 + 5 + 7 = 16$
 $16 \div 4 = 4$
- 16) $8 + 10 + 12 = 30$
 $30 \div 3 = 10$
- 17) $\frac{22}{7} (28^2) = \frac{22}{7} \cdot \frac{784}{1} = \frac{2464}{1} = 2,464 \text{ sq. yd.}$
- 18) $\frac{2}{1} \times \frac{22}{X} \times \frac{28}{1} = \frac{176}{1} = 176 \text{ yd.}$
- 19) $\frac{11}{4} \times \frac{11}{4} \times \frac{11}{4} = \frac{1331}{64} = 20 \frac{51}{64} \text{ cu. in.}$
- 20) 28