

25E

- 1) $\frac{1}{8} \times \frac{16}{8} \times \frac{4}{5} = \frac{1}{2}$
- 2) $\frac{17}{6} \times \frac{6}{5} \times \frac{25}{8} = \frac{85}{8} = 10 \frac{5}{8}$
- 3) $1/7 \cdot 7H = 140 \cdot 1/7$
H = 20
- 4) $7(20) = 140$
 $140 = 140$
- 5) $1/16 \cdot 16W = 48 \cdot 1/16$
W = 3.
- 6) $16(3) = 48$
 $48 = 48$
- 7) $\frac{13}{4} \div \frac{21}{5} = \frac{13}{4} \times \frac{5}{21} = \frac{65}{84}$
- 8) $\frac{4}{11} \div \frac{2}{11} = \frac{4 \div 2}{1} = 2$
- 9) $4 \frac{2}{12} - 1 \frac{6}{12} = 3 \frac{14}{12} - 1 \frac{6}{12} = 2 \frac{8}{12} = 2 \frac{2}{3}$
- 10) $8 \frac{4}{8} - 2 \frac{6}{8} = 7 \frac{12}{8} - 2 \frac{6}{8} = 5 \frac{6}{8} = 5 \frac{3}{4}$
- 11) $7 \frac{12}{15} + 2 \frac{5}{15} = 9 \frac{17}{15} = 10 \frac{2}{15}$
- 12) $\frac{2}{3} = \frac{4}{6} = \frac{6}{9} = \frac{8}{12}$
- 13) $\frac{1}{10} = \frac{2}{20} = \frac{3}{30} = \frac{4}{40}$
- 14) $7 \times 2,000 = 14,000$ lbs.
- 15) $9,000 \div 2,000 = 4 \frac{1000}{2000} = 4 \frac{1}{2}$ tons
- 16) $\frac{1}{2} \times \frac{2000}{1} = \frac{2000}{2} = 1,000$ lbs.
- 17) $\frac{2}{8} \times \frac{1}{3} \times \frac{8}{5} = \frac{2}{3}$ acre
- 18) $5/2 \times 4/1 = 20/2 = 10$ qts.
- 19) $\frac{35}{4} \div \frac{5}{1} = \frac{35}{4} \times \frac{1}{5} = \frac{7}{4} = 1 \frac{3}{4}$ yd.
- 20) 33

25F

- 1) $\frac{3}{5} \times \frac{5}{4} \times \frac{1}{4} = \frac{3}{16}$
- 2) $\frac{5}{8} \times \frac{5}{6} \times \frac{8}{3} = \frac{25}{6} = 4 \frac{1}{6}$
- 3) $1/6 \cdot 6K = 54 \cdot 1/6$
K = 9
- 4) $6(9) = 54$
 $54 = 54$
- 5) $1/25 \cdot 25X = 450 \cdot 1/25$
X = 18
- 6) $25(18) = 450$
- 7) $\frac{16}{9} \div \frac{5}{3} = \frac{16}{9} \times \frac{3}{5} = \frac{16}{15} = 1 \frac{1}{15}$
- 8) $\frac{7}{8} \div \frac{1}{8} = \frac{7 \div 1}{1} = 7$
- 9) $10 \frac{4}{12} - 3 \frac{9}{12} = 9 \frac{16}{12} - 3 \frac{9}{12} = 6 \frac{7}{12}$
- 10) $6 \frac{10}{15} - 2 \frac{12}{15} = 5 \frac{25}{15} - 2 \frac{12}{15} = 3 \frac{13}{15}$
- 11) $9 \frac{4}{6} + 7 \frac{5}{6} = 16 \frac{9}{6} = 17 \frac{3}{6} = 17 \frac{1}{2}$
- 12) $\frac{4}{5} = \frac{8}{10} = \frac{12}{15} = \frac{16}{20}$
- 13) $\frac{3}{7} = \frac{6}{14} = \frac{9}{21} = \frac{12}{28}$
- 14) $4 \times 2,000 = 8,000$ lbs.
- 15) $7 \div 2 = 3 \frac{1}{2}$ qts.
- 16) $\frac{3}{4} \times \frac{16}{1} = \frac{12}{1} = 12$ oz.
- 17) $\frac{11}{8} \times \frac{18}{1} = \frac{66}{1} = 66$ in.
- 18) $\frac{11}{2} \div \frac{3}{1} = \frac{11}{2} \times \frac{1}{3} = \frac{11}{6} = 1 \frac{5}{6}$ yd.
- 19) $\frac{1}{3} \times \frac{1}{2} \times \frac{1}{4} = \frac{1}{24}$
- 20) 100

26A

- 1) done
- 2) done
- 3) $4B + 8 = 28$
 $-8 = -8$
 $4B = 20$
 $1/4 \cdot 4B = 20 \cdot 1/4$
B = 5
- 4) $4(5) + 8 = 28$
 $20 + 8 = 28$
 $28 = 28$
- 5) $2Y - 11 = 7$
 $+11 = +11$
 $2Y = 18$
 $1/2 \cdot 2Y = 18 \cdot 1/2$
Y = 9
- 6) $2(9) - 11 = 7$
 $18 - 11 = 7$
 $7 = 7$
- 7) $5C + 8 = 18$
 $-8 = -8$
 $5C = 10$
 $1/5 \cdot 5C = 10 \cdot 1/5$
C = 2
- 8) $5(2) + 8 = 18$
 $10 + 8 = 18$
 $18 = 18$
- 9) $5Z - 2 = 38$
 $+2 = +2$
 $5Z = 40$
 $1/5 \cdot 5Z = 40 \cdot 1/5$
Z = 8
- 10) $5(8) - 2 = 38$
 $40 - 2 = 38$
 $38 = 38$
- 11) $3D + 9 = 21$
 $-9 = -9$
 $3D = 12$
 $1/3 \cdot D = 12 \cdot 1/3$
D = 4
- 12) $3(4) + 9 = 21$
 $12 + 9 = 21$
 $21 = 21$
- 13) $7A - 7 = 42$
 $+7 = +7$
 $7A = 49$
 $1/7 \cdot 7A = 49 \cdot 1/7$
A = 7
- 14) $7(7) - 7 = 42$
 $49 - 7 = 42$
 $42 = 42$

26B

- 1) $5B + 3 = 18$
 $\quad \underline{-3} \quad \underline{-3}$
 $5B = 15$
 $1/5 \cdot 5B = 15 \cdot 1/5$
 $B = 3$
- 2) $5(3) + 3 = 18$
 $15 + 3 = 18$
 $18 = 18$
- 3) $12T - 1 = 35$
 $\quad \underline{+1} \quad \underline{+1}$
 $12T = 36$
 $1/12 \cdot 12T = 36 \cdot 1/12$
 $T = 3$
- 4) $12(3) - 1 = 35$
 $36 - 1 = 35$
 $35 = 35$
- 5) $4C + 7 = 31$
 $\quad \underline{-7} \quad \underline{-7}$
 $4C = 24$
 $1/4 \cdot 4C = 24 \cdot 1/4$
 $C = 6$
- 6) $4(6) + 7 = 31$
 $24 + 7 = 31$
 $31 = 31$
- 7) $6S - 13 = 11$
 $\quad \underline{+13} \quad \underline{+13}$
 $6S = 24$
 $1/6 \cdot 6S = 24 \cdot 1/6$
 $S = 4$

- 8) $6(4) - 13 = 11$
 $24 - 13 = 11$
 $11 = 11$
- 9) $10D + 11 = 91$
 $\quad \underline{-11} \quad \underline{-11}$
 $10D = 80$
 $1/10 \cdot 10D = 80 \cdot 1/10$
 $D = 8$
- 10) $10(8) + 11 = 91$
 $80 + 11 = 91$
 $91 = 91$
- 11) $7W - 13 = 22$
 $\quad \underline{+13} \quad \underline{+13}$
 $7W = 35$
 $1/7 \cdot 7W = 35 \cdot 1/7$
 $W = 5$
- 12) $7(5) - 13 = 22$
 $35 - 13 = 22$
 $22 = 22$
- 13) $3E + 17 = 20$
 $\quad \underline{-17} \quad \underline{-17}$
 $3E = 3$
 $1/3 \cdot 3E = 3 \cdot 1/3$
 $E = 1$
- 14) $3(1) + 17 = 20$
 $3 + 17 = 20$
 $20 = 20$

26C

- 1) $5F + 13 = 38$
 $\quad \underline{-13} \quad \underline{-13}$
 $5F = 25$
 $1/5 \cdot 5F = 25 \cdot 1/5$
 $F = 5$
- 2) $5(5) + 13 = 38$
 $25 + 13 = 38$
 $38 = 38$
- 3) $8V - 14 = 26$
 $\quad \underline{+14} \quad \underline{+14}$
 $8V = 40$
 $1/8 \cdot 8V = 40 \cdot 1/8$
 $V = 5$
- 4) $8(5) - 14 = 26$
 $40 - 14 = 26$
 $26 = 26$
- 5) $7G + 21 = 56$
 $\quad \underline{-21} \quad \underline{-21}$
 $7G = 35$
 $1/7 \cdot 7G = 35 \cdot 1/7$
 $G = 5$
- 6) $7(5) + 21 = 56$
 $35 + 21 = 56$
 $56 = 56$
- 7) $5W - 12 = 53$
 $\quad \underline{+12} \quad \underline{+12}$
 $5W = 65$
 $1/5 \cdot 5W = 65 \cdot 1/5$
 $W = 13$
- 8) $5(13) - 12 = 53$
 $65 - 12 = 53$
 $53 = 53$
- 9) $6H + 7 = 25$
 $\quad \underline{-7} \quad \underline{-7}$
 $6H = 18$
 $1/6 \cdot 6H = 18 \cdot 1/6$
 $H = 3$
- 10) $6(3) + 7 = 25$
 $18 + 7 = 25$
 $25 = 25$
- 11) $11X - 16 = 72$
 $\quad \underline{+16} \quad \underline{+16}$
 $11X = 88$
 $1/11 \cdot 11X = 88 \cdot 1/11$
 $X = 8$
- 12) $11(8) - 16 = 72$
 $88 - 16 = 72$
 $72 = 72$
- 13) $2J + 17 = 37$
 $\quad \underline{-17} \quad \underline{-17}$
 $2J = 20$
 $1/2 \cdot 2J = 20 \cdot 1/2$
 $J = 10$
- 14) $2(10) + 17 = 37$
 $20 + 17 = 37$
 $37 = 37$

26D

- 1) $6Y - 12 = 12$
 $6Y = 24$
 $1/6 \cdot 6 = 24 \cdot 1/6$
 $Y = 4$
- 2) $6(4) - 12 = 12$
 $24 - 12 = 12$
 $12 = 12$
- 3) $4K + 6 = 46$
 $4K = 40$
 $1/4 \cdot K = 40 \cdot 1/4$
 $K = 10$
- 4) $4(10) + 6 = 46$
 $40 + 6 = 46$
 $46 = 46$
- 5) $\frac{5 \cdot 25}{3} \times \frac{34^2}{5} \times \frac{1}{17} = \frac{10}{3} = 3\frac{1}{3}$
- 6) $\frac{8}{N} \times \frac{N}{5} \times \frac{10^2}{8} = \frac{2}{1} = 2$
- 7) $\frac{5}{16} + \frac{2}{8} = \frac{5}{16} + \frac{4}{16} = \frac{9}{16}$
- 8) $\frac{23}{5} + \frac{13}{6} = \frac{23}{5} \times \frac{6}{13} = \frac{138}{65} = 2\frac{8}{65}$
- 9) $\frac{6}{12} + \frac{10}{12} = \frac{16}{12} = \frac{4}{3}$
 $\frac{4}{3} + \frac{5}{9} = \frac{36}{27} + \frac{15}{27} = \frac{51}{27} = \frac{17}{9} = 1\frac{8}{9}$
- 10) $\frac{3}{12} + \frac{8}{12} = \frac{11}{12}$
 $\frac{11}{12} + \frac{7}{12} = \frac{18}{12} = \frac{3}{2} = 1\frac{1}{2}$
- 11) $2 \times 5,280 = 10,560$ ft.
 12) $7 \times 5,280 = 36,960$ ft.
 13) $1/2 \times 5,280 = 2,640$ ft.
- 14) $\frac{7}{2} \times \frac{27}{4} = \frac{189}{8} = 23\frac{5}{8}$ sq. ft.
- 15) no
 16) $8D = 120$; $D = 15$
 17) $12 \times 12 = 144$
 18) 5

26E

- 1) $3Z - 13 = 20$
 $3Z = 33$
 $1/3 \cdot 3Z = 33 \cdot 1/3$
 $Z = 11$
- 2) $3(11) - 13 = 20$
 $33 - 13 = 20$
 $20 = 20$
- 3) $8L + 7 = 55$
 $8L = 48$
 $1/8 \cdot 8L = 48 \cdot 1/8$
 $L = 6$
- 4) $8(6) + 7 = 55$
 $48 + 7 = 55$
 $55 = 55$
- 5) $\frac{20}{7} \times \frac{1}{2} \times \frac{5}{12} = \frac{55}{84}$
- 6) $\frac{5}{8} \times \frac{10}{3} \times \frac{21}{10} = \frac{35}{8} = 4 \frac{3}{8}$
- 7) $\frac{1}{3} \div \frac{5}{18} = \frac{1}{3} \times \frac{18}{5} = \frac{6}{5} = 1 \frac{1}{5}$
- 8) $\frac{16}{3} \div \frac{3}{2} = \frac{16}{3} \times \frac{2}{3} = \frac{32}{9} = 3 \frac{5}{9}$
- 9) $9/15 > 5/15$
- 10) $16/32 = 16/32$
- 11) $7/21 < 12/21$
- 12) $5 \times 5,280 = 26,400$ ft.
- 13) $\frac{2}{3} \times \frac{5280}{1} = \frac{3520}{1} = 3,520$ ft.
- 14) $7/2 \times 16 = 56$ oz.
- 15) $25 \frac{4}{12} + 1 \frac{9}{12} = 26 \frac{13}{12} = 27 \frac{1}{12}$ mi.
- 16) 25: 5, 25; 45: 3, 5, 15, 45
 GCF = 5
- 17) yes
- 18) $\frac{61}{10} \div \frac{3}{2} = \frac{61}{10} \times \frac{2}{3} = \frac{61}{15} = 4 \frac{1}{15}$
 so 5 bags
- 19) $9 \times 9 = 81$
- 20) 55

26F

- 1) $7A + 8 = 29$
 $7A = 21$
 $1/7 \cdot A = 21 \cdot 1/7$
 $A = 3$
- 2) $7(3) + 8 = 29$
 $21 + 8 = 29$
 $29 = 29$
- 3) $9M - 9 = 54$
 $9M = 63$
 $1/9 \cdot 9M = 63 \cdot 1/9$
 $M = 7$
- 4) $9(7) - 9 = 54$
 $63 - 9 = 54$
 $54 = 54$
- 5) $\frac{8}{5} \times \frac{3}{2} \times \frac{5}{6} = \frac{3}{2} = 1 \frac{1}{2}$
- 6) $\frac{8}{7} \times \frac{5}{6} \times \frac{7}{8} = \frac{5}{6}$
- 7) $\frac{5}{8} \div \frac{1}{12} = \frac{5}{8} \times \frac{12}{1} = \frac{15}{2} = 7 \frac{1}{2}$
- 8) $\frac{12}{5} \div \frac{36}{25} = \frac{12}{5} \times \frac{25}{36} = \frac{5}{3} = 1 \frac{2}{3}$
- 9) $3/4 - 1/4 = 2/4 = 1/2$
- 10) $\frac{5}{10} - \frac{2}{10} = \frac{3}{10}$
- 11) $\frac{24}{30} - \frac{5}{30} = \frac{19}{30}$
- 12) $35 \div 3 = 11 \frac{2}{3}$ yds.
- 13) $8 \times 2 = 16$ pts.
- 14) $3/2 \times 4 = 6$ qts.
- 15) $10 \frac{4}{8} - 6 \frac{6}{8} = 9 \frac{12}{8} - 6 \frac{6}{8} = 3 \frac{6}{8} = 3 \frac{3}{4}$ tons
 $\frac{15}{8} \times \frac{2000}{1} = 7,500$ lbs.
- 16) $3 \times 3 \times 7$
- 17) $13/2 \times 12 = 78$ in.
- 18) $7/8 \times 5,280 = 4,620$ ft.
 $4,620 \div 3 = 1,540$ yds.
- 19) $23 \times 23 = 529$
- 20) 40

27A

- 1) done
- 2) $\frac{22}{7} (3^2) = \frac{22}{7} \times \frac{9}{1} = \frac{198}{7} = 28 \frac{2}{7}$ sq. ft.
- 3) $\frac{22}{7} (21^2) = \frac{22}{7} \times \frac{441}{1} = \frac{1386}{1} = 1,386$ sq. in.
- 4) $\frac{22}{7} (6^2) = \frac{22}{7} \times \frac{36}{1} = \frac{792}{7} = 113 \frac{1}{7}$ sq. ft.
- 5) $\frac{22}{7} (4^2) = \frac{22}{7} \times \frac{16}{1} = \frac{352}{7} = 50 \frac{2}{7}$ sq. yds.
- 6) done
- 7) $\frac{2}{1} \times \frac{22}{7} \times \frac{3}{1} = \frac{132}{7} = 18 \frac{6}{7}$ ft.
- 8) $\frac{2}{1} \times \frac{22}{7} \times \frac{21}{1} = \frac{132}{1} = 132$ in.
- 9) $\frac{2}{1} \times \frac{22}{7} \times \frac{6}{1} = \frac{264}{7} = 37 \frac{5}{7}$ ft.
- 10) $\frac{2}{1} \times \frac{22}{7} \times \frac{7}{1} = \frac{44}{1} = 44$ in.