

Test 17

- 1) $41 - 32 = 9$
 $9 \times 5/9 = 5^\circ$
- 2) $140 - 32 = 108$
 $198 \times 5/9 = 60^\circ$
- 3) $91 - 32 = 59$
 $59 \times 5/9 = 32.8^\circ$ (rounded)
- 4) $200 \times 9/5 = 360$
 $360 + 32 = 392^\circ$
- 5) $35 \times 9/5 = 63$
 $63 + 32 = 95^\circ$
- 6) $56 \times 9/5 = 100.8$
 $100.8 + 32 = 132.8^\circ$
- 7) $3(5) + 1 = -5X + X$
 $15 + 1 = -4X$
 $16 = -4X$
 $-4 = X$
- 8) $3(5) + 1 = -5(-4) + (-4)$
 $15 + 1 = 20 - 4$
 $16 = 16$
- 9) $D(2 - 5) - 8 = -3D - 2D + 6$
 $2D - 5D - 8 = -5D + 6$
 $2D = 6 + 8$
 $2D = 14$
 $D = 7$
- 10) $(7)(2 - 5) - 8 = -3(7) - 2(7) + 6$
 $7(-3) - 8 = -21 - 14 + 6$
 $-21 - 8 = -29$
 $-29 = -29$
- 11) .868
- 12) .0912
- 13) .4602
- 14) $\frac{7}{6} \times \frac{43}{8} = \frac{301}{48} = 6\frac{13}{48}$
- 15) $\frac{7}{8} \times \frac{6}{2} = 7$
- 16) $\frac{31}{10} \times \frac{10}{3} = \frac{31}{3} = 10\frac{1}{3}$
- 17) $\$10.00 - \$4.37 = \$5.63$
- 18) $\$8.98 \times 3 = \26.94
- 19) above: water freezes
at 0°C .
- 20) $2(12 \times 8) + 2(11 \times 8) =$
 $192 + 176 = 368\text{ sq. ft.}$

Test 18

- 1) $(8 - 4)^2 \times |4 - 8| =$
 $(4)^2 \times |-4| =$
 $16 \times 4 = 64$
- 2) $11 + |3 + 2| =$
 $11 + |3 + 4| =$
 $11 + |7| =$
 $11 + 7 = 18$
- 3) $|1 - 3| + |-5| =$
 $|1 - 9| + 5 =$
 $|-8| + 5 =$
 $8 + 5 = 13$
- 4) $2Y - 2 = 3Y - |6 - 12|$
 $2Y - 2 = 3Y - |-6|$
 $2Y - 2 = 3Y - 6$
 $-2 + 6 = 3Y - 2Y$
 $4 = Y$
- 5) $2(4) - 2 = 3(4) - |6 - 12|$
 $8 - 2 = 12 - 6$
 $6 = 6$
- 6) $-2X + |6 + 1| + 3X - 4 = 10 - 1$
 $-2X + 7 + 3X - 4 = 9$
 $X + 3 = 9$
 $X = 6$
- 7) $-2(6) + |6 + 1| + 3(6) - 4 = 10 - 1$
 $-12 + 7 + 18 - 4 = 9$
 $9 = 9$
- 8) $4A + 5 - 3 = 2A + (2)^2(2)$
 $4A + 2 = 2A + 8$
 $2A = 8 - 2$
 $2A = 6$
 $A = 3$
- 9) $4(3) + 5 - 3 = 2(3) + (2)^2(2)$
 $12 + 5 - 3 = 6 + 8$
 $14 = 14$
- 10) $-2B + 3 + 5B + 1^2 = 2(3 + 2) + 3^2$
 $3B + 3 + 1 = 2(5) + 9$
 $3B + 4 = 10 + 9$
 $3B + 4 = 19$
 $3B = 15$
 $B = 5$
- 11) $-2(5) + 3 + 5(5) + 1^2 = 2(3 + 2) + 3^2$
 $-10 + 3 + 25 + 1 = 2(5) + 9$
 $19 = 19$
- 12) $35 \times 9/5 = 63$
 $63 + 32 = 95^\circ$
- 13) $72 - 32 = 40$
 $40 \times 5/9 = 22.22^\circ$ (rounded)
- 14) .87
- 15) 2.88
- 16) 4.5
- 17) .72
- 18) 100°
- 19) $2(5.2 \times 5.2) + 2(5.2 \times 5.2) + 2(5.2 \times 5.2) =$
 $54.08 + 54.08 + 54.08 = 162.24\text{ sq. in.}$
- 20) $3.6 \div 9 = .4$