

Test 19

- 1) $12A = 60 \times 7$
 $A = 5 \times 7$
 $A = 35$
- 2) $9T = 10 \times 81$
 $T = 10 \times 9$
 $T = 90$
- 3) $8G = 6 \times 16$
 $G = 6 \times 2$
 $G = 12$
- 4) $5Q = 3 \times 25$
 $Q = 3 \times 5$
 $Q = 15$
- 5) $6X = 11 \times 36$
 $X = 11 \times 6$
 $X = 66$
- 6) $3D = 2 \times 9$
 $D = 2 \times 3$
 $D = 6$
- 7) $2(2X + 1) = 2(X + 4)$
 $4X + 2 = 2X + 8$
 $4X - 2X = 8 - 2$
 $2X = 6$
 $X = 3$
- 8) $2(2(3) + 1) = 2((3) + 4)$
 $2(6 + 1) = 2(7)$
 $14 = 14$
- 9) $11 + Q = |(-32)| + 4^2 - 5$
 $11 + Q = |9| + 16 - 5$
 $11 + Q = 20$
 $Q = 9$
- 10) $11 + (9) = |(-32)| + 4^2 - 5$
 $20 = |9| + 16 - 5$
 $20 = 20$
- 11) .414
- 12) 1.669
- 13) 13.8
- 14) 3
- 15) 1,200
- 16) 2
- 17) sunny to total = $\frac{5}{30} = \frac{1}{6}$
sunny to cloudy = $\frac{5}{25} = \frac{1}{5}$
- 18) $\frac{3}{5}$ of 365:
 $365 \div 5 = 73$
 $73 \times 3 = 219$
- 19) $75 \div 1.5 = 50$
- 20) $32 \div 2 = 16$ stayed
 $16 \div 4 = 4$
 $4 \times 3 = 12$ were bored
 $16 - 12 = 4$ not bored

Test 20

- 1) $\frac{X}{5} = \frac{12}{15}$
 $15X = 60$
 $X = 4$
- 2) $\frac{R}{28} = \frac{13}{13}$
 $R = 28$
- 3) $\frac{V}{10} = \frac{36}{18}$
 $18V = 360$
 $V = 20$
- 4) $\frac{X}{144} = \frac{2}{6}$
 $6X = 288$
 $X = 48$
- 5) $5Y = 6 \times 45$
 $Y = 6 \times 9$
 $Y = 54$
- 6) $63G = 9 \times 70$
 $7G = 70$
 $G = 10$
- 7) $3 \div 8 = .375$
- 8) $10 \div 100 = .1$
- 9) $5 \div 10 = .5$
- 10) $1 \div 4 = .25$
- 11) $\frac{45}{100} = \frac{9}{20}$
- 12) $\frac{8}{10} = \frac{4}{5}$
- 13) $\frac{66}{100} = \frac{33}{50}$
- 14) $\frac{4}{10} = \frac{2}{5}$
- 15) $3X - 9 + 7X - 10 = 9X - 5X + 5$
 $10X - 19 = 4X + 5$
 $10X - 4X = 5 + 19$
 $6X = 24$
 $X = 4$
- 16) $3(4) - 9 + 7(4) - 10 = 9(4) - 5(4) + 5$
 $12 - 9 + 28 - 10 = 36 - 20 + 5$
 $21 = 21$
- 17) $5^2 \div 5 + 3(X + 7) = 2X + 27$
 $25 \div 5 + 3X + 21 = 2X + 27$
 $5 + 3X + 21 = 2X + 27$
 $3X + 26 = 2X + 27$
 $3X - 2X = 27 - 26$
 $X = 1$
- 18) $5^2 \div 5 + 3((1) + 7) = 2(1) + 27$
 $25 \div 5 + 3(8) = 2 + 27$
 $5 + 24 = 2 + 27$
 $29 = 29$
- 19) $1.00 - .75 = .25$
 $.25 = \frac{25}{100} = \frac{1}{4}$
- 20) $40.5 - 36.2 = 4.3$ ft.