Calculator Test 1
2010 - 2011

11. $8+(7)(.5)+(17)(.25)+(2)(.1)+(21)(.05)+(.03)=17.03$

12. $\left(\sqrt{\pi}\right)\left(9^8\right)=7.63\times10^7$

13. Mode = numbers occurring most frequently.
Ans: 2.00

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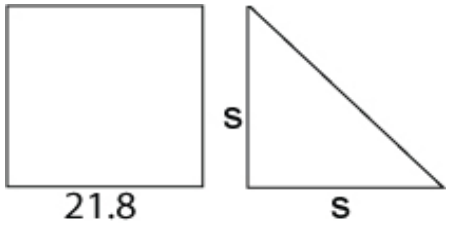
24. 1st Way
(65 x 5) - (6 x 4) = 301

2nd Way
(71 x 5) - (6 x 9) = 301

25. $\frac{18\ days}{1}\times\frac{24\ hr}{1\ day}\times\frac{60\ \text{min}}{1\ hr}=2.59\times10^4$

26. 

$$A_{square}=A_{triangle}$$
$$s^2=\frac{bh}{2}$$
$$21.8^2=\frac{(s)(s)}{2}$$
$$(2)\left(21.8^2\right)=s^2$$
$$\sqrt{(2)\left(21.8^2\right)}=s$$
$$30.8=s$$

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35. $(11)(13)(17)(19)(23)(29)(31)=9.55\times10^8$

36. $\sqrt{999\times9999}\ =\ 3160$

37. $A=LW$
$=(8.25)(3.11)$
$=25.7$

38. $47.6-12.1-13.2\ =\ 22.3$

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47. Use % CHG key on the calculator.
245 Enter
328 %CHG
Ans: 33.9

48. $$\left(\frac{7.5\,hr}{1}\times\frac{60\,\text{min}}{1\,hr}\right)(.82)=369$$

49. $$h=\sqrt{232^2+128^2}$$
$$=265$$

50. $$\frac{\sin\theta}{1}=\frac{\text{Opposite}}{\text{Hypotenuse}}$$
$$(1)(\text{Opposite})=(\sin\theta)(\text{Hypotenuse})$$
$$\text{Opposite}=(\sin 42^o)(112)$$
$$\text{Opposite}=74.9$$

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59. $$I=PRT$$
$$=(25000)(.0325)(21)$$
$$=\$17062.50$$

60. $$3:1=\frac{3}{4}:\frac{1}{4}$$
$$\frac{3}{4}=\text{larger angle}$$
$$\left(\frac{3}{4}\right)\left(\frac{90}{1}\right)=67.5$$

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61. $$V=\pi r^2 h$$
$$=\pi(2.31^2)(5.87)$$
$$=98.4$$

62. $$TSA=2\left[(3.1)(7.21)+(3.1)(5.87)+(7.21)(5.87)\right]$$
$$=166$$

71. 8 ft x 12 ft = 96 inches x 144 inches
After 10 sec, the dimensions are: 76 inches x 114 inches
To change to square ft, divide by 144.
Therefore, (76 x114)/144 = 60.2

72. P(Ace of Spades) = 1/52
P(Sum of 6 on a pair of 6-sided die) = 5/36
P = (1/52) (5/36)
P = .00267

73.
$$\text{Diagonal of a square} = s\sqrt{2}$$
$$s = \sqrt[3]{7821}$$
Therefore,
$$d = \left(\sqrt[3]{7821}\right)\left(\sqrt{2}\right)$$
$$= 28.1$$

74.
$$SA = \frac{4}{1}\left(\frac{3}{4}\pi r^2\right)$$
$$= 3\pi r^2$$
$$= 3\pi\left(\frac{.012}{2}\right)^2$$
$$= 3.39\times 10^{-4}$$