## Daily Dilemma \#14: Answer Key

1. \#1 shows the cake divided into an equal number of pieces. Each girl will get 4 pieces of cake.
2. $\$ 30.00 /$ day $\cdot 7$ days $=\$ 210.00$ $\$ .22 / \mathrm{km} \cdot 230 \mathrm{~km}=\$ 50.60$ mileage
total cost $=210.00+50.60=\$ 260.60$
3. Profit $=38.10-(12.00+6.33+2.46+4.50)=12.81$

Each boy gets $\$ 12.81 \div 3=\$ 4.27$
4.

| Time | $8: 00$ | $8: 01$ | $8: 02$ | $8: 03$ | $8: 04$ | $8: 05$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| No. of boys | 1 | 5 | 9 | 13 | 17 | 21 |


| Time | $8: 06$ | $8: 07$ | $8: 08$ | $8: 09$ | $8: 10$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| No. of boys | 25 | 29 | 33 | 37 | 41 |

41 boy scouts left for the fair at 8:10.
Extra Credit Rule: number of boys $=4$ (number of minutes after 8 ) +1
5.

ᄂ after it flipped

- $90^{\circ}$ counterclockwise

Extra Credit area $=13 \cdot 15=195$ square feet of carpet
The border material requires the perimeter:
$13+15+13+15=56$ feet
*The magic numbers are the sum of the correct answers.

