Daily Dilemma #10: Answer Key

1. Work backwards
   She used 1/4 of the total amount of soap to clean the clothes because she used half of the remaining half.

   So, the 15 bars of soap left is 3/4 of the total amount of soap.

   If n is the total number of bars of soap, $15 = \frac{3}{4} \times n \rightarrow n = 20$ bars of soap

2. 15 girls were at a party along with 15 mothers.

   ![Diagram of tables]

   To seat 30 people, $2n + 2 = 30$ so $n = 14$ tables.

3. $26 - 2 - 9 = 15$ hours of praying from Mon. – Friday
   Then $15 \div 5 = 3$ hours of praying each day.

4. | Number of candles | 3  | 4  | 5  | 6  |
   |-------------------|----|----|----|----|
   | Number of
   | strawberries    |
   |---|---|---|---|
   | 3 | 4 | 5 | 6 |

   There would be 14 candles so Peter would be 14 years old. Draw a picture.

5.
From the first scale, a soldier is 2 if a doll is 1. Then a violin is the sum of a soldier and a doll, or $2 + 1 = 3$.

On the third scale, the left side has a value of 5; the right side has a value of 7. So, the scale is balanced by putting another soldier on the left side.