## Daily Dilemma #10: Answer Key

## 1. Work backwards

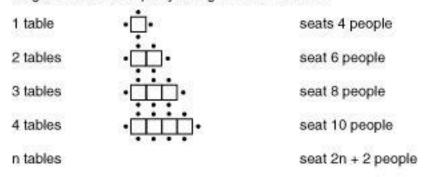
She used 1/4 of the total amount of soap to clean the clothes because she used half of the remaining half.

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,  $15 = 3/4 \cdot n \rightarrow n = 20$  bars of soap

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

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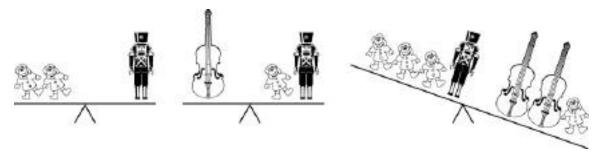
To seat 30 people, 2n + 2 = 30 so n = 14 tables To seat 30 people, 2n + 2 = 30 so n = 14 tables.

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

4.

				1
Number	3	4	5	6
of candles				
Number	3	4	5	6
of				
strawberri				
es				

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



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 solider on the left side.