**Sec. 2.1 # 38.**

The set of countries in which the average price for a Big Mac is between $2.00 and $2.99

|  |  |
| --- | --- |
| Switzerland | $5.46 |
| Denmark | $4.97 |
| Sweden | $4.46 |
| United Kingdom | $3.61 |
| Germany | $3.58 |
| New Zealand | $3.16 |
| United States | $3.00 |
| Turkey | $2.80 |
| Peru | $2.74 |
| Canada | $2.60 |
| Chile | $2.56 |
| Japan | $2.50 |
| Australia | $2.46 |
| Czech Republic | $2.45 |
| China | $1.26 |

**Answer:**

**C = China, Czech Republic, Australia, Chile, Japan, Canada, Turkey, Peru**

**Sec. 2.3 #50**

*In Exercises 49–58, let*

*U* = {1, 2, 3, 4, 5, 6, 7, 8}

*A* = {1, 2, 4, 5, 8}

*B* = {2, 3, 4, 6}

**Determine the following:***A* ∩ *B
Answer: = 2 and 4*

**Sec. 2.5 #4ab**

**4.** **Soft Drink Taste Test** A soft drink company wishes to introduce a new soft drink. The company is considering two flavors, lemon lime and cherry cola. In a sample of 125 people, it was found that

* 80 liked lemon lime.
* 68 liked cherry cola.
* 42 liked both types

a) How many liked only lemon lime?

b) How many liked only cherry cola?

c) How many liked either one or the other or both?

d) How many did not like either flavor?

Answer:

a) 80-42=38 Lemon Lime
b) 68-42=26 Cherry Cola

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