<u>Reasoning and Problem Solving – Addition and Subtraction answers</u>

1. Route 1 = 3,454 + 2,474 = **5,928** miles
   Route 2 = 2,456 + 3,374 = **5,830** miles
   Route 2 is the shortest route.

2. **5,915 miles – 5,830 miles = 85 miles worth**

3.

| 7,392 | – | **2,856** | = | 4,536 |

4.

Original Number	Rounded to the nearest 100
3,367	<u>**3,400**</u>
2,646	**2,600**
4,015	**4,000**
5,280	**5,300**
3,906	**3,900**
2,431	<u>**2,400**</u>

3,400 + 2,400 = 5,800

> The two original numbers are:
>
> | **3,367** | | **2,431** |

5.

Number		Subtract 10		Add 100		Subtract 1,000
3,986	⇒	**3,976**	⇒	**4,076**	⇒	**3,076**
7,321	⇒	**7,311**	⇒	**7,411**	⇒	**6,411**
5,210	⇒	**5,200**	⇒	**5,300**	⇒	**4,300**

6. **Pete is wrong and Seb is correct. There will be 826 miles of fuel left in the tank. Pete did not exchange in the hundreds column; he subtracted 8 from 6 and gave the incorrect answer of 2. This then made his subtraction in the thousands column incorrect too.**