

1. Answer:  $\frac{25}{18}$

2. Answer: 12

3. Gasoline: S/.44.6  
Tax: S/.5.4

4.  $1150 - (1150 \times 0.15) = 977.5$   
She would pay S/.977.5.

5. Section #1: 20 cm  
Section #2: 8 cm  
Section #3: 3.2 cm  
Section #4: 1.28 cm  
Total height: 32.5 cm

6. 
$$\frac{\left\{ \frac{1}{2} - \left( \frac{1}{2} - 2 \right)^2 \right\}^2}{1 + \frac{1}{2}} = \frac{\left\{ \frac{1}{2} - \frac{9}{4} \right\}^2}{\frac{3}{2}} = \frac{49}{24}$$

7. Braces has no sense in the operation, so

$$\frac{1}{2} - \left(1 - \frac{1}{3}\right)^2 + \left(\frac{1}{3} - 1\right)^3 + 1 = \frac{41}{54}$$

8.  $\frac{1.6 \text{ km}}{45 \text{ min}} = \frac{30 \text{ km}}{t}$

$$t = \frac{30 \text{ km} \times 45 \text{ min}}{1.6 \text{ km}} = 843.75 \text{ min} = 14.0 \text{ h}$$

$$\frac{1.6 \text{ km}}{45 \text{ min}} = \frac{30 \text{ km}}{t} \rightarrow t = \frac{30 \text{ km} \times 45 \text{ min}}{1.6 \text{ km}} = 843.75 \text{ min} = 14.0 \text{ h}$$

9. Dimensions of each band:  $19.2 \text{ m} \times 4 \text{ m}$   
Dimensions of the flag:  $19.2 \text{ m} \times 12 \text{ m}$