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Correct Answers:

1	2	3	4	5
D	B	B	C	E

Explanations:

1. The graph shows that the price of W and X type tiles decrease over the period.

Now, for Y type tiles percentage increase from 2006 to 2012 is $= \frac{200 - 150}{150} \times 100$

$$= \frac{50}{150} \times 100 = 33\frac{1}{3}\%$$

For Z type tiles the percentage increase from 2006 to 2012 is $= \frac{300 - 50}{50} \times 100$

$$= \frac{250}{50} \times 100 = 500\%$$

Hence, option D is correct.

2. Total price value of W during 2006 to 2012 = 250 + 400 + 50 + 150 + 200 + 50 + 150
= 1250 Average price of W during 2006 to 2012
= $\frac{1250}{7} = \text{Rs } 178.57$

Total price value of X during 2006 to 2012 = 300 + 350 + 250 + 350 + 300 + 350 + 250
= 2150 Average price of X during 2006 to 2012
= $\frac{2150}{7} = \text{Rs } 307.14$

Total price value of Y during 2006 to 2012 = 150 + 100 + 200 + 300 + 100 + 250 + 200
= 1300 Average price of Y during 2006 to 2012
= $\frac{1300}{7} = \text{Rs } 185.714$

Total price value of Z during 2006 to 2012 = 50 + 200 + 150 + 100 + 250 + 100 + 300
= 1150 Average price of Z during 2006 to 2012
= $\frac{1150}{7} = \text{Rs } 164.28$

Thus, X type of tiles show the maximum average price during 2006 to 2012.

Hence, option B is correct.

3.

$$\text{Average price of all tiles in 2006} = \frac{1}{4} (250 + 300 + 150 + 50)$$

$$= \frac{750}{4} = \text{Rs } 187.5$$

$$\text{Average price of all tiles in 2007} = \frac{1}{4} (400 + 350 + 100 + 200)$$

$$= \frac{1050}{4} = \text{Rs } 262.5$$

$$\text{Average price of all tiles in 2008} = \frac{1}{4} (50 + 250 + 200 + 150)$$

$$= \frac{650}{4} = \text{Rs } 162.5$$

$$\text{Average price of all tiles in 2009} = \frac{1}{4} (150 + 350 + 300 + 100)$$

$$= \frac{900}{4} = \text{Rs } 225$$

$$\text{Average price of all tiles in 2010} = \frac{1}{4} (200 + 300 + 100 + 250)$$

$$= \frac{850}{4} = \text{Rs } 212.5$$

$$\text{Average price of all tiles in 2011} = \frac{1}{4} (50 + 350 + 250 + 100)$$

$$= \frac{750}{4} = \text{Rs } 187.5$$

$$\text{Average price of all tiles in 2012} = \frac{1}{4} (150 + 250 + 200 + 300)$$

$$= \frac{900}{4} = \text{Rs } 225$$

∴ In 2008, the average price of all four types of tiles is the minimum.

Hence, option B is correct.

4. Total price of all four types of tiles in 2012 is $(150 + 250 + 200 + 300) = \text{Rs } 900$

Total price of all four types of tiles in 2009 is $(150 + 350 + 300 + 100) = \text{Rs } 900$

Both are equal, so the required percentage is 0%.

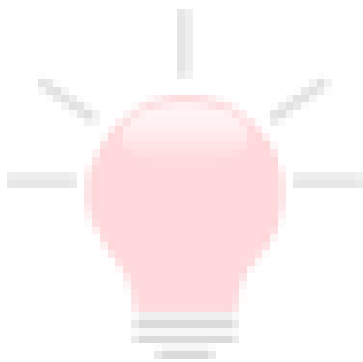
Hence, option C is correct.

5.

Reqd. ratio = $\frac{\text{Price of Y type tiles in 2008}}{\text{Price of Z type tiles in 2010}}$

$$= \frac{200}{250} = \frac{4}{5} = 4 : 5$$

Hence, option E is correct.



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