

Name : Rafi Ullah

id [15440](#)

bba 2nd semester

submitted to Dr liaqat ali

Paper Business maths

(Q:1)

MCQS:-

i) \rightarrow (e)

ii) \rightarrow (b)

iii) \rightarrow (d)

iv) \rightarrow (e)

v) \rightarrow (a)

vi) \rightarrow (e)

vii) \rightarrow (e)

viii) \rightarrow (e)

ix) \rightarrow (b)

x) \rightarrow (e)

Question No (2)(a)

Solution :-

$$\text{Selling Price} = 5.67$$

$$\text{Percentage of cost} = 100$$

$$\text{So } \frac{5.67}{100}$$

$$\text{Selling Price as \% of cost} = 0.056 \text{ or } 5.67\%$$

(b) Selling Price = ?
Formula

$$\text{Markup on cost} = \frac{(\text{Price} - \text{cost})}{\text{cost}}$$

$$\text{Markup on cost} = 0.26 \left(\frac{\text{Price} - 4.50}{4.50} \right)$$

By cross Multiplication

$$0.26 \times 4.50 = \text{Price} - 4.50$$

$$\Rightarrow 1.17 = \text{Price} - 4.50$$

$$\Rightarrow \text{Price} = 1.17 + 4.50$$

$$\text{Selling Price} = 5.67$$

$$(x^2 - 9) \div (x+3) \times (4x-3) \div 2 = x$$

$$\frac{x^2 - 9}{x+3} \times \frac{4x-3}{2} = x$$

$$\frac{(x+3)(x-3)(4x-3)}{2(x+3)} = x$$

$$(x-3)(4x-3) = 2x$$

either $x-3=2x$
 $-3=2x-x$
 $x = -3$

OR: $4x-3=2x$

$$4x-2x=3$$

$$2x=3$$

$$x = \frac{3}{2}$$

$$x = -3, \frac{3}{2}$$

Question No (3)(a)

Solution :-

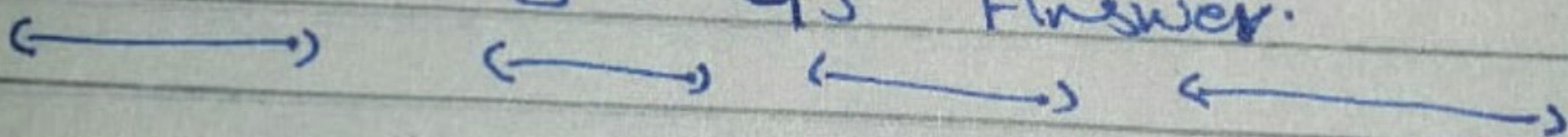
$$\text{Brother} + \text{Sister} = 60 \rightarrow (A)$$

$$\text{Sister} = 3 * B$$

Put this in (A)

$$4B = 60$$

$$S = 45 \text{ Answer.}$$



Question No (3)(b)

Solution :-

Markup

$$18.75 - 15 = 3.75$$

Percent Markup

$$(3.75/15) * 100 = 25\% \text{ Answer.}$$

Question No (4)(a)

Solution

$$\text{List Price} = \$150$$

$$\text{Discount} = 20\%$$

$$\text{cost} = 150 - 150 * (20/100)$$

$$\text{cost} = 120$$

Question No (4)(b)

Solution

$$\text{Heat} + \text{Electricity} = 1080 \rightarrow (A)$$

$$\text{Heat} = 3 * \text{Electricity}$$

Put in (A)

$$4 \text{ Electricity} = 1080 \Rightarrow \left(\frac{1080}{4} \right)$$

$$\text{Electricity} = 270$$

$$\text{Heat} = 810$$

Question No (5)(a)

Solution:-

$$4 \text{ Men} + 6 \text{ Boys} = 5 \rightarrow (A)$$

$$3 \text{ Men} + 4 \text{ Boys} = 7 \rightarrow (B)$$

From B

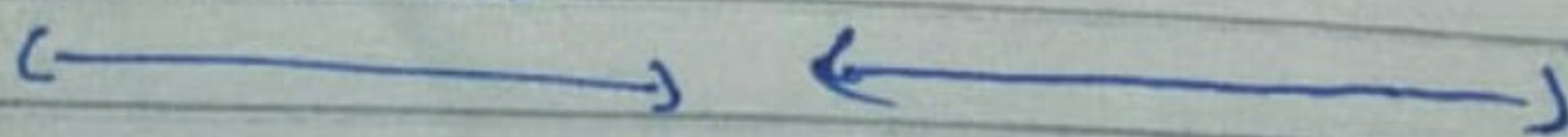
$$\text{Men} = \frac{7 - 4B}{3}$$

Put in (A)

$$4 \left(\frac{7 - 4B}{3} \right) + 6B = 5$$

$$B = -6.5$$

$$M = 11$$



Question No (5)(b)

Solution:-

$$\text{List Price} = \$150$$

$$\text{Discount} = 20\%$$

$$\text{Cost} = 150 - 150 \left(\frac{20}{100} \right)$$

$$\text{Cost} = 120 \text{ Answer}$$