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**Paper: Business Math’s ( Summer )**

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**Question No.1 MCQ’s**

|  |  |
| --- | --- |
| 1 | B |
| 2 | B |
| 3 | d |
| 4 | E |
| 5 | C |
| 6 | D |
| 7 | E |
| 8 | E |
| 9 | A |
| 10 | E |

**Question No 2**

**Part A**

Markup

Cost

**b) Selling price**

Solution

As we have formula

By cross multiplications

**Selling Price**

**a) Selling Price as Percentage of cost?**

Selling Price

Percentage of cost

So,

Selling price as % of cost or 5.67%

c) Markup

**Question 2**

**PART B**



**SOLUTION:**

**=**

2(X-3) = (4X-3)X

2X – 6 =

-8X+3X+6=0

4X(X-2)-3(X-2)=

(4X-3)(X-2)=0

4X-3=0 X-2=0

4X=3

X=4/3 ANSWER , X=2 ANSWER

**Q No 3:**

**Part A**

SOLUTION:

Let X = girls age

And Y = boys age

So X + y = 60

Then

X – 2= 3(y – 2)

X – 2 =3Y-6

X -2 +6 – 3Y = 0

X + 4 – 3Y = 0

X -3Y =-4

ADDING BOTH SIDE

X + Y= 60

X + 3Y= 4

4Y = 64

DIVIDING 4 ON BOTH SIDe

Y= 16

NOW Putting this value in eqn 1

X +16 =60

X= 60-16

X= 44 ANSWER

So,

Girl age = 44

Boy age = 16

**Question 3**

**PART B**

Cost = $15

Sale Price = $18.75

Profit = $3.75

Percentage of Markup =

Percentage Markup =

Percentage Markup =

Percentage Markup =  **25% Answer**

**Question No: 4**

**Part A**

**Solution**

**Question No 4**

**PART B**

**How much each expense cost to company?**

Solution

So, the expenses of light =

**Expenses of light = 270**

**Now the expenses of heat?**

Expenses of Heat =

For simplification first we will multiply 1080 by 3 and then the total of them will be divided by 4

* 3240
* = 810

**Expenses of heat = 810**

**For Verification: 810+270 = 1080**

**Question No: 5**

**PART A:** Let the time taken by Men be x

And time taken by boys be y

Then According to condition 4/x + 6/y = 1/5 …… Equation (1)

3/x + 4/y = 1/7 …… Equation (2)

Now Let u = 1/x and v = 1/y

4u + 6v = 1/5 × 3

3u + 4v = 1/7 × 4

12u + 18v = 3/5

12u + 16v = 4/7 in the Eqn (12u is cancelled with 12u)

2v = 3/5 – 4/7 = 21 – 20 = 1/ 35 And (18v Minus 16v we got 2v)

35

**v = 1/35 × 2**

**v = 2/70 = 2/y**

**y = 70 days**

**x = 35 days**

**Question 5**

**Part B**

**Solution**