



Celing Lam

email@simplysmarteducr.com

Re: Holiday Camps



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Date: Sun 10/30/2011 5:10 PM

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**From:** "Celing Lam" <celing@msn.com>

**Sent:** Sunday, October 30, 2011 2:20 AM

**To:** "Simple Smart" <email@simplysmarteducr.com>

**Subject:** RE: Holiday Camps

Hi Mr. Tan

Elliot would like to ask you two questions that he couldn't solve. I know it is not good to ask for your help while you are not on job but when Elliot did his math practice (henry park exam paper 2010), he couldn't solve two questions, his dad tried to help him another 4 but there are two my husband really doesn't know how to help him. Without any choice, we ask for your help. It's not urgent, you can answer us by tomorrow monday.


Q1. Mrs Lee knitted many scarves for sale.  $\frac{3}{5}$  of them were black scarves and the rest were white scarves. After selling 120 white scarves and  $\frac{5}{9}$  of the black scarves, she had  $\frac{2}{5}$  of the scarves left. How many scarves did she sell in all? (ans is 450)

Q2. Michael bought some apples and gave half of them to Jackson. Jackson bought some pears and gave half of them to Michael. Michael threw away 25 pears that were rotten while Jackson bought for himself another 20 apples. After that, the number of pears to apples Michael had were in the ratio of 1:4 and the number of pears to apples Jackson had were in the ratio of 1:2. How many pears did Jackson buy? (ans is 80)

Really sorry to trouble you! Thank you so much for your help in advance!

Regards

Celing

From  Celing Lam  
To email@simplysmarteductr.com  
Subject Re: Holiday Camps

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Dear Mr Tan

I really really appreciate you to take your precious time to reply my requests. May God give you wisdom always. Thank you once again!

Celing

Sent from my iPhone

On 31 Oct, 2011, at 11:08 AM, "email" <email@simplysmarteductr.com> wrote:

Hi Celing,  
please find my suggested solutions as follows;

Q1. Mrs Lee knitted many scarves for sale.  $\frac{3}{5}$  of them were black scarves and the rest were white scarves. After selling 120 white scarves and  $\frac{5}{9}$  of the black scarves, she had  $\frac{2}{5}$  of the scarves left. How many scarves did she sell in all? (ans is 450)

(Before, change, after, compare, common multiples, number bonds approaches)

Black: white

3 units : 2 units (Before)

9 units : 6 units, total: 15 units

- 5 units - 120 (Change)

4 units 6 units - 120, total: 10 units - 120, (After) equals to  $\frac{2}{5} \times 15$  units = 6 units (Compare)

=> 10 units - 120 = 6 units

so, applying number bonds, 6 units + 4 units - 120 = 6 units

Thus, 4 units = 120

5 units = 150

total scarves sold = 150 + 120 = 270 (ANS)

Q2. Michael bought some apples and gave half of them to Jackson. Jackson bought some pears and gave half of them to Michael. Michael threw away 25 pears that were rotten while Jackson bought for himself another 20 apples. After that, the number of pears to apples Michael had were in the ratio of 1:4 and the number of pears to apples Jackson had were in the ratio of 1:2. How many pears did Jackson buy? (ans is 80)

(Units & Parts approaches as the sizes of model-drawings between apples & pears are different!)

Michael: Jackson

Apples: 1 unit : 1 unit

Pears: 1 part : 1 part (Before)

-25P + 20A (Change)

Michael:

(1 part - 25): 1 unit = 1 : 4 (After)

=>  $4(1\text{part} - 25) = 1$  unit (Compare in terms of common multiple)

4 parts - 100 = 1 unit == (row / equation 1)

Jackson:

1 part : (1 unit + 20) = 1 : 2 (After)

=> 2 parts = 1 unit + 20

= 4 parts - 100 + 20

= 2 parts + 2 parts - 80

total pears bought = 2 parts = 80 (ANS)