

A Maths Question, PSLE 2022

Mrs Li baked a total of 40 large and small cakes in the ratio of 5 : 3. She decorated each cake with some cherries in the ratio of 3 : 2. She used a total of 204 cherries to decorate all of the small cakes and 7 large cakes.

- a) How many small cakes did Mrs Le bake?
b) What is amount of the cherries used to decorate all the small cakes?
c) How many more cherries does Mrs Li need to decorate the remaining large cakes?

Paper 2, Q17

<< Ratio >>

<Writing>

a) $40 \times \frac{3}{5+3} = 15 \rightarrow$ small cakes
($40 - 15 = 25 \rightarrow$ large cakes)

b) <G. R.>

	Large		Small
Cake	25		15
Cherry	3 u	:	2 u
	×		×
Cake	7		15
	204 cherries		

$3 \times 7 = 21$ (u) \rightarrow Number of unit of cherries used for 7 large cakes
 $2 \times 15 = 30$ (u) \rightarrow Number of unit of cherries used for 15 small cakes
 $21 + 30 = 51$ (u)
 $204 \div 51 = 4$ (cherries) \rightarrow 1 unit
 $4 \times 30 = 120$ (cherries)

c) $25 - 7 = 18$ (cakes) \rightarrow Remaining large cakes
 $3 \times 18 = 54$ (u)
 $4 \times 54 = 216$ (cherries)

Answer a) 15 b) 120 c) 216