Maths Mastery

Solve Problems Involving Relative Sizes of Two Quantities

Ratios

Complete this table showing the number of balls in any number of bags:

Bags of balls	Blue balls	Green balls	Yellow Balls
1	4	5	3
2	8	10	6
3	12	15	9
5	20	25	15
10	40	50	30
25	100	125	75
50	200	250	150
100	400	500	300
120	480	600	360

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Ratios

Complete this table showing the scaling of ingredients for scones:

Batch	Flour (kg)	Butter (kg)	Sugar (kg)
1	0.225	0.05	0.025
2	0.45	0.1	0.05
3	0.675	0.15	0.075
5	1.125	0.25	0.125
8	1.8	0.4	0.2
10	2.25	0.5	0.25
12	2.7	0.6	0.3
25	5.625	1.25	0.625
30	6.75	1.5	0.75

Hide Answers

Ratios

Complete this table showing the number of items of stationery in any number of packs:

Stationery Packs	Pens	Pencils	Rubbers
1	6	8	3
2	12	16	6
5	30	40	15
8	48	64	24
10	60	80	30
15	90	120	45
24	144	192	72
50	300	400	150
90	540	720	270

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Ice Cream

Here are the ingredients for banana and blueberry ice cream:
1 lemon
125g mascarpone
6 tbsp icing sugar
12 blueberries
1 banana
I have a packet of 48 blueberries. How much of the other ingredients will I need to make the ice cream using all the blueberries?
4 lemons, 500g mascarpone, 24 tbsp icing sugar and 4 bananas.
1 tablespoon of icing sugar weighs 8g. If I make the recipe with 1 kg of mascarpone, what weight of icing sugar will I need?
48 tbsp = 384g

Create your own recipe question for a partner.

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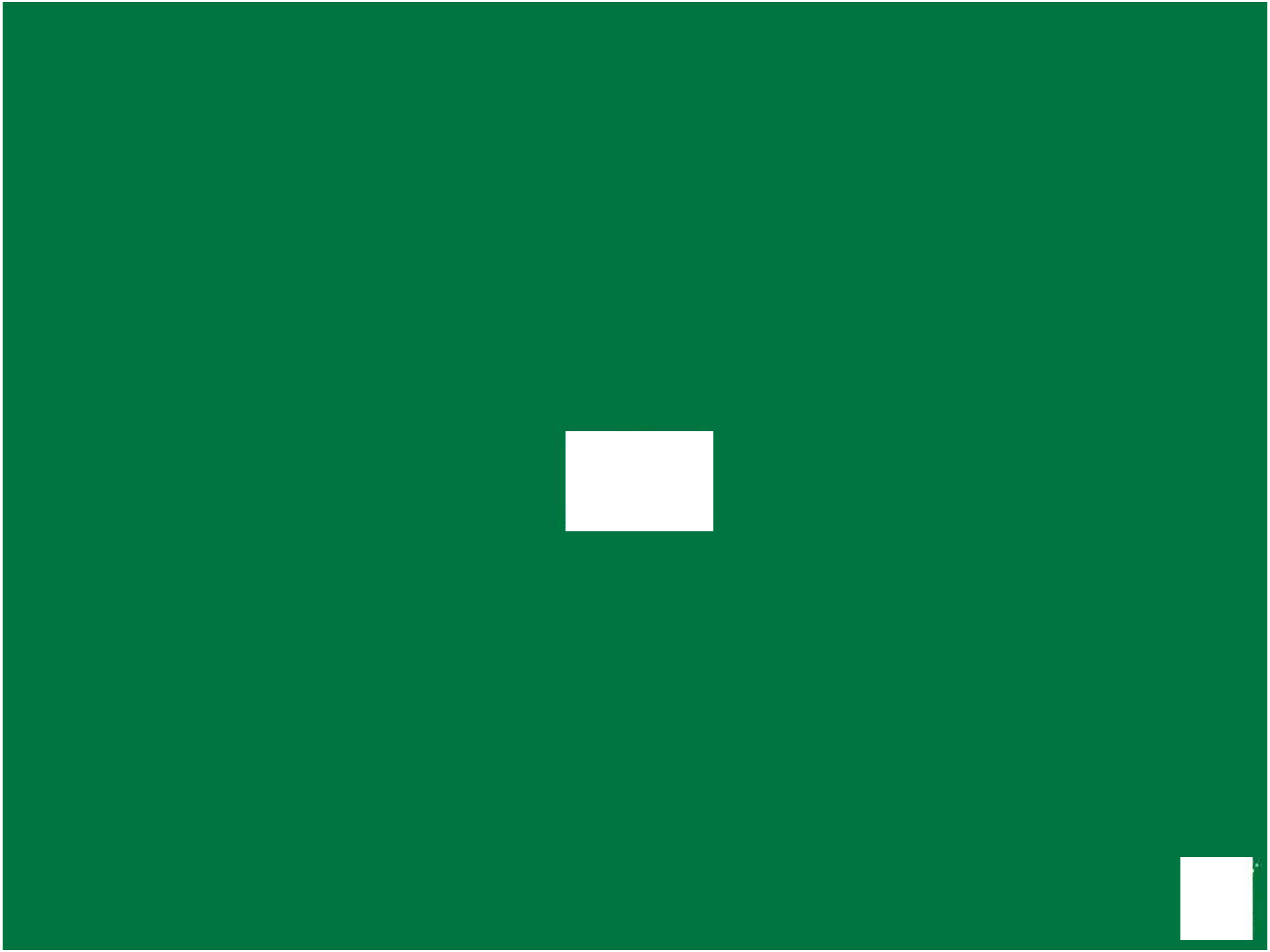
Sharing Pizzas

4 children share 6 pizzas

2 more children join the group.

Each have the same amount of pizza.

So 3 more pizzas are needed.

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