

a)

Shown is a recipe for making shortbread biscuits.

Kennedy has 150g of unsalted butter, 500g of caster sugar and 250g of plain flour.

What is the maximum number of biscuits that Kennedy can make?

Shortbread Biscuits

120g unsalted butter
50g caster sugar
180g plain flour

(makes 20)

How much of each ingredient is needed to make one biscuit?

Unsalted butter: $120g \div 20 = 6g$
Caster sugar: $50g \div 20 = 2.5g$
Plain flour: $180g \div 20 = 9g$

How many biscuits can be made with the ingredients Kennedy has?

Unsalted butter: $150g \div 6g = 25$ biscuits
Caster sugar: $500g \div 2.5g = 200$ biscuits
Plain flour: $250g \div 9g = 27.\dot{7}$ biscuits

What is the maximum number of biscuits that Kennedy can make?

Kennedy has enough caster sugar to make 200 biscuits, but not enough unsalted butter and plain flour.

They have enough plain flour for $27.\dot{7}$ biscuits, but not enough unsalted butter.

They have enough unsalted butter for 25 biscuits, with caster sugar and plain flour left over.

Kennedy can make a maximum of 25 biscuits.

b)

Shown is a recipe for making pancakes.

Cris has 300g of plain flour, 12 eggs and 1 litre of milk.

What is the maximum number of pancakes that Cris can make?

Pancakes

100g plain flour
2 large eggs
300ml milk

(makes 8)

How much of each ingredient is needed to make one pancake?

Plain flour: $100g \div 8 = 12.5g$
Eggs: $2 \div 8 = \frac{1}{4}$ of an egg
Milk: $300ml \div 8 = 37.5ml$

How many pancakes can be made with the ingredients Cris has?

Plain flour: $300g \div 12.5g = 24$ pancakes
Eggs: $12 \div \frac{1}{4} = 48$ pancakes
Milk: $1000ml \div 37.5 = 26.\dot{6}$ pancakes

What is the maximum number of pancakes that Cris can make?

c)

Shown is a recipe for making popcorn.

Deli has 200g of popcorn kernels, 400g of caster sugar and 200g of salted butter.

What is the maximum number of servings of popcorn that Deli can make?

<p style="text-align: center;">Popcorn 90g popcorn kernels 240g caster sugar 60g salted butter (makes 6 servings)</p>

How much of each ingredient is needed to make one serving?	Popcorn kernels: $90g \div 6 = 15g$ Caster sugar: $240g \div 6 = 40g$ Salted butter: $60g \div 6 = 10g$
How many servings can be made with the ingredients Deli has?	
What is the maximum number of servings of popcorn that Deli can make?	

d)

Shown is a recipe for making ice cream.

Jordan has 150g of condensed milk, 300ml of double cream and 30ml of vanilla extract.

What is the maximum number of servings of ice cream that Jordan can make?

<p style="text-align: center;">Ice Cream 200g condensed milk 600ml double cream 5ml vanilla extract (makes 8 servings)</p>
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