



Fruit Salad

I can solve problems by scaling up and down.



This recipe makes enough fruit salad for 12 people.

Ingredients

4 bananas	2 large oranges
3 apples	16 grapes
12 blackberries	24 blueberries
22 strawberries	6 kiwi fruit
100ml lemonade	50ml fresh orange juice

You are going to scale down the recipe to make enough for **6 people**. Choose the right words to fill the gaps and explain what you need to do.

To make the six portions I need to _____ every ingredient. I need to _____ each ingredient by _____.

double

multiply

halve

divide

four

two

ten

eight

Now scale down the recipe.

bananas - _____

large oranges - _____

apples - _____

grapes - _____

blackberries - _____

blueberries - _____

strawberries - _____

kiwi fruit - _____

lemonade - _____

fresh orange juice - _____

What if you needed 24 portions? Work out how much of each ingredient you would need.



Fruit Salad

I can solve problems by scaling up and down.



Calculate the ingredients for these fruit salads.

32 Portions	16 Portions divide by ____ (How many 16s are in 32?)	8 Portions divide by ____ (How many 8s are in 32?)	4 Portions divide by ____ (How many 4s are in 32?)
32 bananas			
16 large oranges			
8 apples			
64 grapes			
72 blackberries			
80 blueberries			
16 strawberries			
8 kiwi fruit			
640ml lemonade			
720ml fresh orange juice			



Scones

I can solve problems by scaling up and down.



Scale down this recipe to make 6 scones and then 4 scones.

To adjust the recipe for **6** scones I need to:

Divide each ingredient by _____ because $12 \div 6 =$ _____.

To adjust the recipe for **4** scones I need to:

Divide each ingredient by _____ because $12 \div 4 =$ _____.

4 Scones	6 Scones	12 Scones
		240g of plain flour
		1 teaspoon of salt
		1 teaspoon of dried mustard
		6 teaspoons of baking powder
		66g of butter
		120g of mature cheddar cheese
		1 egg, beaten
		150ml milk

Can you work out the ingredients needed to bake **8** scones?

Look at the recipes you've just made to find an easy way to do it!



Fruit Salad Answers

This recipe makes enough fruit salad for 12 people.

Ingredients

4 bananas	2 large oranges
3 apples	16 grapes
12 blackberries	24 blueberries
22 strawberries	6 kiwi fruit
100ml lemonade	50ml fresh orange juice

You are going to scale down the recipe to make enough for **6 people**. Choose the right words to fill the gaps and explain what you need to do.

To make the six portions I need to halve every ingredient. I need to divide each ingredient by two.

double	multiply	halve	divide
four	two	ten	eight

Now scale down the recipe. *(Answers in square brackets relate to next section)*

bananas - 2 [8]

apples - $1\frac{1}{2}$ [6]

blackberries - 6 [24]

strawberries - 11 [44]

lemonade - 50ml [200ml]

large oranges - 1 [4]

grapes - 8 [32]

blueberries - 12 [48]

kiwi fruit - 3 [12]

fresh orange juice - 25ml [100ml]

What if you needed 24 portions? Work out how much of each ingredient you would need.

Answers in square brackets



Fruit Salad Answers

Calculate the ingredients for these fruit salads.

32 Portions	16 Portions divide by <u>2</u> (How many 16s are in 32?)	8 Portions divide by <u>4</u> (How many 8s are in 32?)	4 Portions divide by <u>8</u> (How many 4s are in 32?)
32 bananas	16 bananas	8 bananas	4 bananas
16 large oranges	8 large oranges	4 large oranges	2 large oranges
8 apples	4 apples	2 apples	1 apple
64 grapes	32 grapes	16 grapes	8 grapes
72 blackberries	36 blackberries	18 blackberries	9 blackberries
80 blueberries	40 blueberries	20 blueberries	10 blueberries
16 strawberries	8 strawberries	4 strawberries	2 strawberries
8 kiwi fruit	4 kiwi fruit	2 kiwi fruit	1 kiwi fruit
640ml lemonade	320ml lemonade	160ml lemonade	80ml lemonade
720ml fresh orange juice	360ml fresh orange juice	180ml fresh orange juice	90ml fresh orange juice



Scones Answers

Scale down this recipe to make 6 scones and then 4 scones.

To adjust the recipe for 6 scones I need to:

Divide each ingredient by 2 because $12 \div 6 = 2$.

To adjust the recipe for 4 scones I need to:

Divide each ingredient by 3 because $12 \div 4 = 3$.

4 Scones	6 Scones	12 Scones
80g of plain flour	120g of plain flour	240g of plain flour
$\frac{1}{3}$ teaspoon of salt	$\frac{1}{2}$ teaspoon of salt	1 teaspoon of salt
$\frac{1}{3}$ teaspoon of dry mustard	$\frac{1}{2}$ teaspoon of dry mustard	1 teaspoon of dried mustard
2 teaspoons of baking powder	3 teaspoons of baking powder	6 teaspoons of baking powder
22g of butter	33g of butter	66g of butter
40g of mature cheddar cheese	60g of mature cheddar cheese	120g of mature cheddar cheese
$\frac{1}{3}$ egg, beaten	$\frac{1}{2}$ egg, beaten	1 egg, beaten
50ml milk	75ml milk	150ml milk

Can you work out the ingredients needed to bake 8 scones?

Look at the recipes you've just made to find an easy way to do it!

Double the 4 scone recipe. 160g, $\frac{2}{3}$, $\frac{2}{3}$, 4, 44g, 80g, $\frac{2}{3}$, 100ml.