



Fruit Salad

I can solve problems by scaling up and down.



This recipe makes enough fruit salad for 12 people.

Ingredients

4 bananas

3 apples

12 blackberries

22 strawberries

100ml lemonade

2 large oranges

16 grapes

24 blueberries

6 kiwi fruit

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 - _____

apples - _____

blackberries - _____

strawberries - _____

lemonade - _____

large oranges - _____

grapes - _____

blueberries - _____

kiwi fruit - _____

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 ____ (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 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 |
| 1/3 teaspoon of salt | 1/2 teaspoon of salt | 1 teaspoon of salt |
| 1/3 teaspoon of dry mustard | 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 |
| 1/3 egg, beaten | 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, 2/3, 2/3, 4, 44g, 80g, 2/3, 100ml.