

1) William is the tallest because 54 inches is 135 cm , which is 1 cm taller than Chen.
2) Shop $A$ is better value for money because 41 bs is approximately 1816 g . This means that shop $B$ is selling a smaller mass of bananas for a more expensive price than Shop A.
3) 


2)

$\frac{1}{2}$ pound $=2279$

$\frac{1}{3}$ pound $=151 \mathrm{~g}$

$\frac{1}{5}$ pound $=919$
$\frac{1}{4}$ pound $=1149$

| mushrooms + peppers $=378 \mathrm{~g}$ | mushrooms + pepperoni $=318 \mathrm{~g}$ |
| :--- | :--- |
| mushrooms + olives $=341 \mathrm{~g}$ | peppers + pepperoni $=242 \mathrm{~g}$ |
| peppers + olives $=265 \mathrm{~g}$ | pepperoni + olives $=205 \mathrm{~g}$ |

1) Convert these measurements from imperial to metric using the approximate conversion table.


7 inches
7 inches
$\qquad$ cm


4lbs grams

| Imperial <br> Measure | Metric <br> Measure |
| :---: | :---: |
| 1 inch | $2 \frac{1}{2} \mathrm{~cm}$ |
| 1 lb | 454 g |
| 1 pint | 570 millilitres |

2) Convert these measurements from metric to imperial using the approximate conversion table.


21 cm

$4 \frac{1}{2} \mathrm{~kg}$


3 litres
$\qquad$ inches $\qquad$ lbs $\qquad$ pints

| Metric <br> Measure | Imperial <br> Measure |
| :---: | :---: |
| 1 cm | 0.4 inch |
| 1 kg | 2.2 lbs |
| 1 litre | $1 \frac{3}{4}$ pints |

1) Here are the heights of two children.

1 inch = approximately 2.5 cm
William is the tallest.
Do you agree with this statement? Explain your answer.
$\qquad$
$\qquad$
$\qquad$
2) Here are the prices of bananas at two different shops.

At which shop are the bananas better value for money? Explain how you know.
$\qquad$
$\qquad$
$\qquad$

| Shop A | Shop B |
| :---: | :---: |
| $1.9 \mathrm{~kg}=£ 2.20$ | $4 \mathrm{lbs}=£ 2.50$ |

1) Otto, Freddie, Anja and Grace are packing their suitcases for their holidays. Use the clues to work out who each suitcase belongs to.


Name: $\qquad$ Name: $\qquad$ Name: $\qquad$ Name: $\qquad$

- Grace's suitcase is the heaviest.
- Otto's suitcase is the lightest.
- Freddie's suitcase is heavier than Anja's.

2) Otto, Freddie, Anja and Grace are adding toppings to pizzas by choosing two of these different ingredients.

| $\frac{1}{2}$ pound | $\frac{1}{3}$ pound | $\frac{1}{5}$ pound | $\frac{1}{4}$ pound |
| :---: | :---: | :---: | :---: |

Find the mass of each ingredient to the nearest gram.
Find the mass, in grams, of the all of the possible topping combinations that could be added to the pizzas.

|  |  |
| :--- | :--- |
|  |  |
|  |  |



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## Diving into Mastery Guidance for Educators

Each activity sheet is split into three sections, diving, deeper and deepest, which are


These carefully designed activities take your children through a learning journey, initially ensuring they are fluent with the key concept being taught; then applying this to a range of reasoning and problem-solving activities.

These sheets might not necessarily be used in a linear way. Some children might begin at the 'Deeper' section and in fact, others may 'dive straight in' to the 'Deepest' section if they have already mastered the skill and are applying this to show their depth of understanding.


Convert these measurements from metric to imperial using the approximate conversion table.

| Imperial Measure | Metric Measure |
| :---: | :---: |
| 1 inch | $2 \frac{1}{2} \mathrm{~cm}$ |
| 1 lb | 454 g |
| 1 pint | 570 millilitres |
| 5 inches |  |
| 12.5 cm | 3 lbs |
| 1362 g or 1.362 kg | 85 ml or 0.855 l |

Convert these measurements from metric to imperial using the approximate conversion table.

| Metric Measure | Imperial Measure |
| :---: | :---: |
| 1 cm | 0.4 inch |
| 1 kg | 2.2 lbs |
| 1 litre | $1 \frac{3}{4}$ pints |



18 cm
7.2 inches

$3 \frac{1}{2} \mathrm{~kg}$
7.7lbs


2 litres
$3 \frac{1}{2}$ pints

Here are the heights of two children.


Here are the prices of bananas at two shops. At which shop are the bananas better value for money? Explain how you know.


1lb $=$ approx. 454 g
$\mathbf{1 k g}=$ approx. 2.2 lbs

Shop B is better value for money.
3lbs is approximately 1362 g , which is greater than 1.3 kg for a cheaper price.

Otto, Freddie, Anja and Grace are drinking fruit smoothies. Use the clues to work out who each drink belongs to.

$\frac{2}{3}$ of a pint

## 380 ml Grace


$\frac{1}{2}$ of a pint

## 285ml Otto

## Use these approximate conversions.

1 litre = approximately 1.75 pints
1 pint = approximately 570 ml

$\frac{1}{4}$ litre
250ml Anja

$\frac{2}{5}$ litre
400ml Freddie

1. Freddie's drink has the greatest volume.
2. Anja's drink has the smallest volume.
3. Otto's drink has a volume smaller than $\frac{3}{10}$ of a litre.

Otto, Freddie, Anja and Grace mix their own drinks by choosing two of these different juices.

## Use these approximate conversions.

1 litre = approximately 1.75 pints
1 pint = approximately 570 ml


Grape Juice
$\frac{1}{3}$ of a pint


Apple Juice
$\frac{1}{2}$ of a pint


Orange Juice
$\frac{1}{6}$ of a pint


Pineapple Juice 1 pint

Find the volume, in millilitres, of the possible drinks they can mix.

| grape juice + apple juice $=190 \mathrm{ml}+285 \mathrm{ml}=\mathbf{4 7 5 m}$ | grape juice + orange juice $=190 \mathrm{ml}+95 \mathrm{ml}=\mathbf{2 8 5} \mathrm{ml}$ |
| :---: | :--- |
| grape juice + pineapple juice $=190 \mathrm{ml}+570 \mathrm{ml}=\mathbf{7 6 0 m l}$ | apple juice + orange juice $=285 \mathrm{ml}+95 \mathrm{ml}=\mathbf{3 8 0} \mathbf{m l}$ |
| apple juice + pineapple juice $=285 \mathrm{ml}+570 \mathrm{ml}=\mathbf{8 5 5 m l}$ | orange juice + pineapple juice $=95 \mathrm{ml}+570 \mathrm{ml}=\mathbf{6 6 5 m l}$ |

Imperial Units



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| Imperial Measure | Metric Measure |
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| 1 lb | 454 g |
| 1 pint | 570 millilitres |



7 inches
4lbs

2) Convert these measurements from metric to imperial using the approximate conversion table.

| Metric Measure | Imperial Measure |
| :---: | :---: |
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21 cm

$4 \frac{1}{2} \mathrm{~kg}$


3 litres

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Do you agree with this statement?
Explain your answer.

2) Here are the prices of bananas at two different shops.

At which shop are the bananas better value for money?
Explain how you know.

| $\mathbf{1 l b}=$ approximately 454 g |  |
| :---: | :---: |
| Shop A | Shop B |
|  |  |
| $1.9 \mathrm{~kg}=£ 2.20$ | $4 \mathrm{lbs}=£ 2.50$ |

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| Imperial Measure | Metric Measure |
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| 1 inch | $2 \frac{1}{2} \mathrm{~cm}$ |
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7 inches


4lbs

$2 \frac{1}{2}$ pints
2) Convert these measurements from metric to imperial using the approximate conversion table.

| Metric Measure | Imperial Measure |
| :---: | :---: |
| 1 cm | 0.4 inch |
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21 cm

$4 \frac{1}{2} \mathrm{~kg}$


3 litres

1) Here are the heights of two children.

William is the tallest.
Do you agree with this statement?
Explain your answer.

$$
\mathbf{1} \text { inch = approximately } 2.5 \mathrm{~cm}
$$



| William | Chen |
| :---: | :---: |
| 54 inches | 1.34 metres |

2) Here are the prices of bananas at two different shops.

At which shop are the bananas better value for money?
Explain how you know.
1lb $=$ approximately 454 g


1) Otto, Freddie, Anja and Grace are packing their suitcases for their holidays. Use the clues to work out who each suitcase belongs to.

## 1lb = approximately 454 g



- Grace's suitcase is the heaviest.
- Otto's suitcase is the lightest.
- Freddie's suitcase is heavier than Anja's.

2) Otto, Freddie, Anja and Grace are adding toppings to pizzas by choosing two of these different ingredients.


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