



Year 3  
Maths Answers

Week 12- Additional answers/feedback to support with learning in Maths

Day 1

Starter:

1 Answer the questions about the data shown on this bar chart.

a How many children have brown hair?

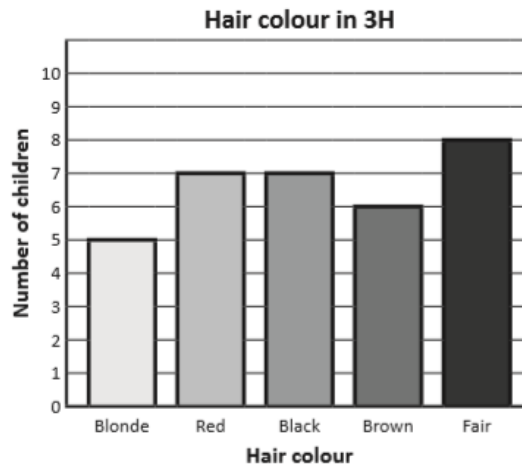
6

b Which colour hair do the smallest group of children have?

Blonde

c Which colour hair do most children have?

Fair



d What do you notice about the number of children who have either red or black hair?

They have the same number of children

Main Activity

The answers are given at the end of the video provided.

<https://classroom.thenational.academy/lessons/measure-to-read-a-scale>

HOTS



Three children measured the same toy car.

Eva says that the car is 6 cm and 5 mm



Dexter says the car is 5 cm



Annie says the car is 4 cm 5 mm



Who is correct?  
Who is incorrect?  
Explain why.

Dexter is correct. The other two children have not lined up the ruler correctly: Eva has started at 1 cm and 5 mm instead of 0 and Annie has started at the end of the ruler.

Tommy thinks that this chocolate bar is 4 cm long. Is he correct?



Convince me.

He is incorrect because he has not placed the chocolate bar at 0, he has put it at the end of the ruler.

## Day 2

### Starter:

- 3 3L were planning a healthy breakfast morning. They conducted a survey to find out the most popular option. The data they collected is shown in the table below:

Breakfast options	Votes	Number of votes
Pancakes and fruit		
Cereal with bananas and honey		
Toast with boiled eggs		
Fruit salad and yogurt		

- a What question did they ask?

*Possible answer: What do you have for breakfast?*

### Main Activity

The answers are given at the end of the video provided.

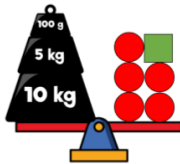
<https://classroom.thenationalacademy/lessons/measure-to-read-mass-on-a-scale>



Here is a balance.



Here is another.



Work out the value of



Can you create your own version for a partner?

One circle weighs 3 kg.  
The square weighs 100 g.

Tommy is weighing a toy car.



Use this to work out what the other children's cars weigh.



My car weighs 1 kg more than Mo's.



My car weighs 200 g less than Tommy's.



My car weighs 1 kg and 300 g less than Alex's.

Tommy's car weighs 4 kg and 500 g.

Alex's car weighs 5 kg and 300 g.

Mo's car weighs 4 kg and 300 g.

Dexter's car weighs 4 kg.

## Day 3

### Starter:

- 2 This pictogram shows the same data as the one above, but this time it has a different key.

- Give this pictogram the same heading as the first graph.
- Add the symbols for the number of snails. Look at the key.
- Why is the second version of the graph better?

Possible answer:

### Mini-beasts found in the garden

Worms	
Dragonflies	
Snails	<i>How many snails can you find in your garden?</i>
Butterflies	

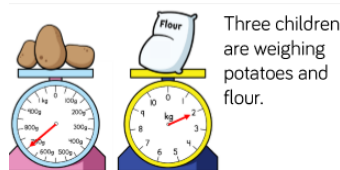
In this pictogram a scale is used. Each picture represents 2 of each mini-beast.

### Main Activity

The answers are given at the end of the video provided.

<https://classroom.thenationalacademy/lessons/measure-to-compare-mass>

## HOTS



Three children are weighing potatoes and flour.



Whitney

The potatoes weigh more because the arrow is further than the arrow on the flour scale.

The flour weighs less because 2 is less than 700



Amir



Alex

The flour weighs more because 2 kg is more than 700 g.

Who do you agree with?  
Explain your answer.

Whitney is wrong because the scales are different.  
Mo is wrong because he hasn't noticed the flour is weighed in kg and the potatoes are weighed in g.  
Alex is correct because 2 kg is the same as 2,000 g which is more than 700 g.

Dora buys two peaches and three pears.

One peach weighs 75 g.



Three pears weigh the same as two peaches.



How much does one pear weigh?

50 g

Day 4  
Starter:

A Carroll diagram can show a lot of information in a small space. Look at this Carroll diagram about pets:

	Has a cat	Doesn't have a cat
Has a dog	Cam Ellie	Zoe
Doesn't have a dog	Tim	Sara Nick

Cam and Ellie both have a dog and a cat.



1 Answer questions about the Carroll diagram above.

a How many kids have a cat?

3

b Name 2 kids who have neither a cat or a dog.

Sara and Nick

c What pet does Tim have?

He has a cat

Main Activity

The answers are given at the end of the video provided.

<https://classroom.thenational.academy/lessons/ordering-mass>

HOTS



Ron is thinking of a measurement. Use his clues to work out which measurement he is thinking of.



- In mm, my measurement is a multiple of 2
- It has 8 cm and some mm
- It's less than 85 mm
- In mm, the digit sum is 12

Ron is thinking of 84 mm (8 cm and 4 mm)

Rosie is measuring a sunflower using a 30 cm ruler. Rosie says,



The sunflower is 150 cm tall.

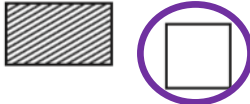



Rosie is incorrect. Explain what mistake she might have made.

How tall is the sunflower?

Rosie is incorrect. She has used the wrong unit on the ruler. The sunflower is 15 cm tall or 150 mm tall.

Day 5  
Starter:

- 4 Mel sorted some shapes into a carroll diagram but made some mistakes. Where did she go wrong? Ring the shapes that are in the wrong space and draw an arrow to the correct space it should be:

	Quadrilateral	Not quadrilateral
Striped		
Not striped		

Main Activity

The answers are given at the end of the video provided.

<https://classroom.thenational.academy/lessons/add-and-subtract-mass>

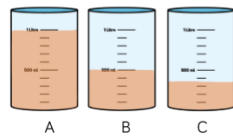


Use the clues to work out who has which container.

Annie: I have exactly half a litre

Amir: I have 1,000 ml

Eva: I have more than 300 ml but less than 400 ml

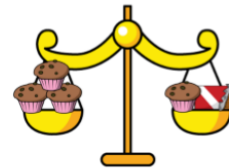


Annie has container B

Ron has container A

Eva has container C

The chocolate bar weighs 100 g.  
How much does one muffin weigh?



How much does each side weigh?

Children could use a bar model to work this out. They would see the chocolate bar must weigh the same as two muffins so one muffin must weigh 50 g. Each side weighs 150 g.