

## **Year 5 & 6 Homework - Week 6**

**\*\*Homework is due in on Wednesday 21st April, please complete it in your red homework books and hand it in on time. \*\***

**Enjoy your Spring break Year 5&6!**

### **WORDS OF THE WEEK:**

**For the words below, please find out the definition and create sentences using the words.**

**Prohibit**

**Hasty**

### **Spelling:**

**A spelling test will be done on the Friday, so please learn the spellings below. Write the definition and create a sentence for each word below.**

Correspond

Criticise

Curiosity

Definite

Desperate

Determined

Develop

Dictionary

Disastrous

Embarrass

Environment

Equipped

## **SUNFLOWER PROJECT**

*'And your Lord revealed to the bees; Build your hives in mountains, trees and what they build. Then eat from every fruit and follow your Lord's enslaved paths...'*

*"The Earth is green and beautiful, and Allah has appointed you his stewards over it. The whole Earth has been created a place of worship, pure and clean. Whoever plants a tree and diligently looks after it until it matures, and bears fruit is rewarded."*

In light to these beautiful sayings, highlighting the importance of bees amongst other creatures, taking care of our environment, and the children studying the book 'Holes' in English, we have launched a sunflower project for year 5&6.

It is a **competition** to see who can grow a sunflower at home to save the bees, and measure to see if your sunflower is growing the tallest.

Students will be provided with the seeds and will therefore be expected to complete their **ongoing** homework for this project across this term, given different activities to complete every week.

**Good luck to you and your sunflower plants year 5& 6!**

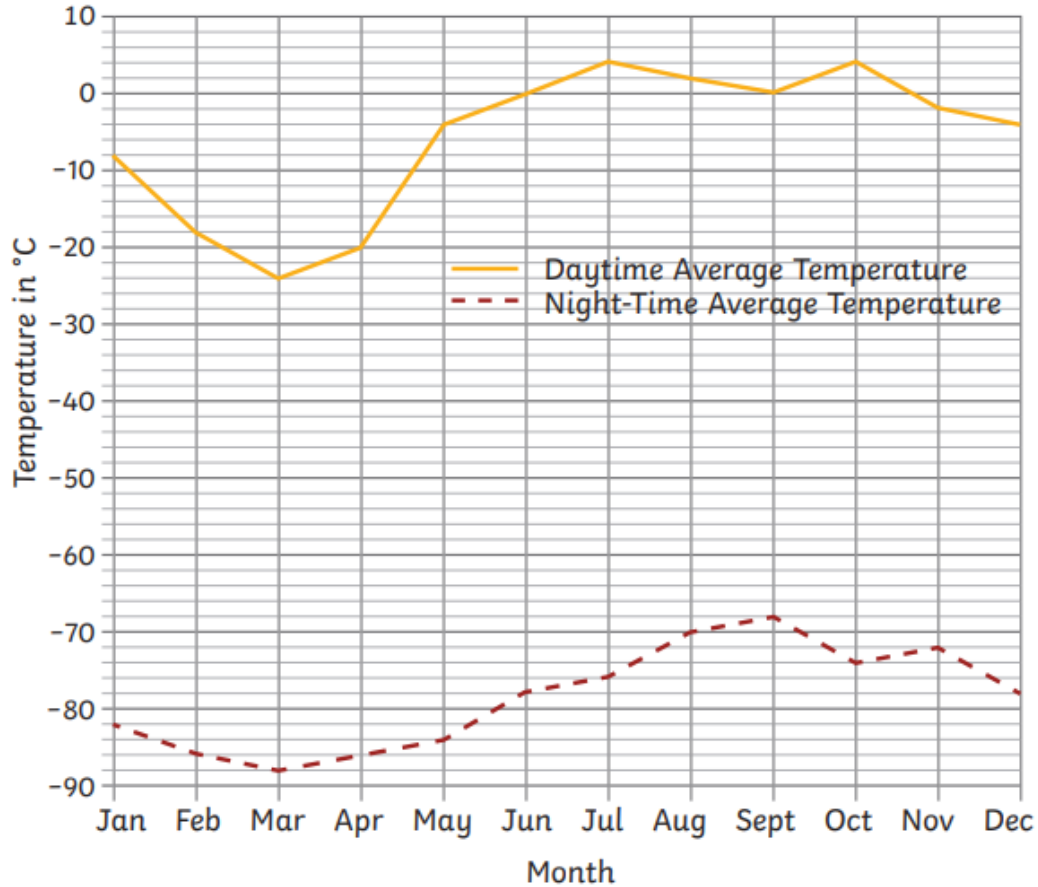
## **YEAR 5 & 6 MATHS:**

In Maths this week, Year 5 have been consolidating their knowledge and understanding on line graphs. Please complete the questions below.

This line graph shows the average monthly temperatures on Mars for daytime and night time.



A Line Graph to Show the Average Monthly Temperatures on Mars



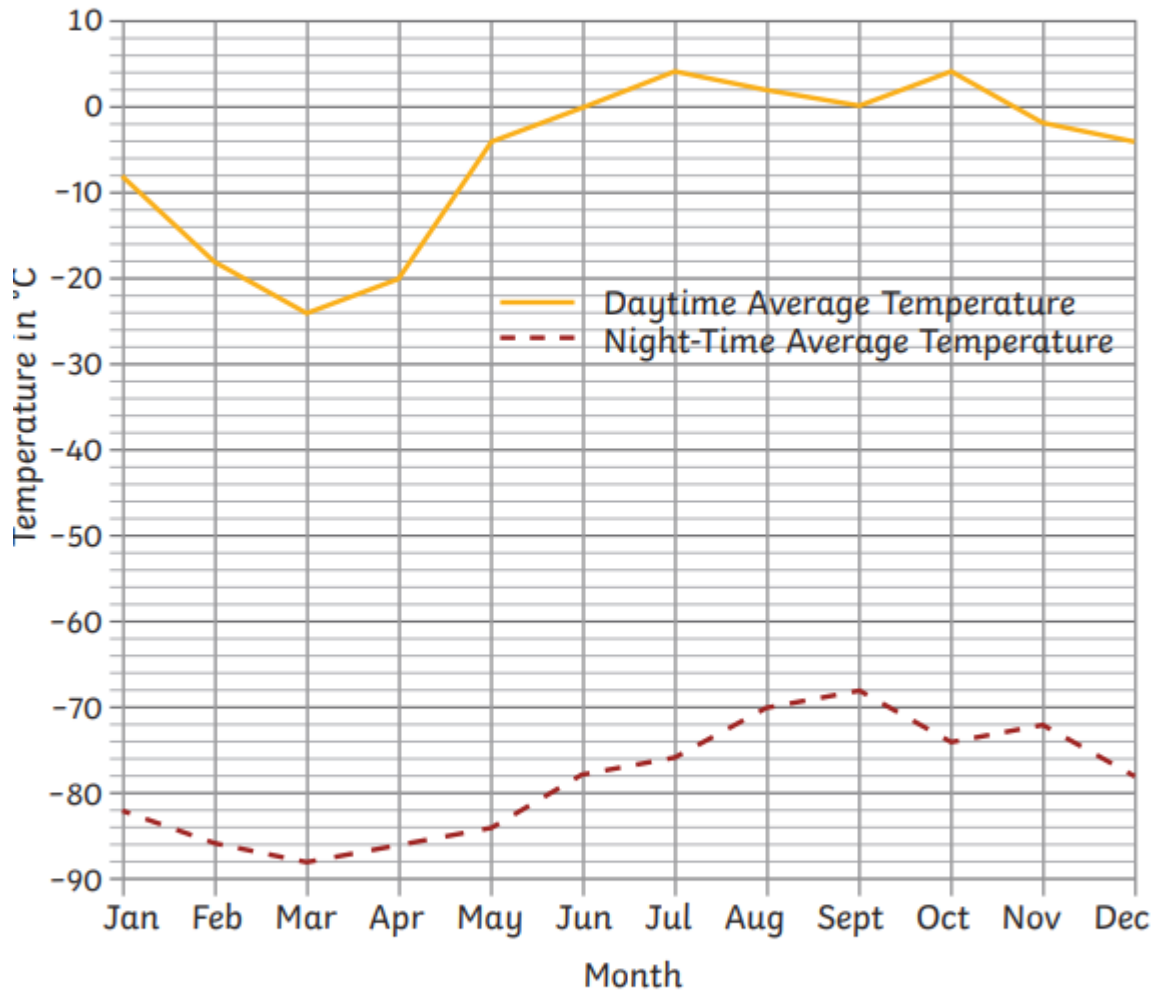
- 1) What was the average daytime temperature on Mars in April?

- 2) What was the average night-time temperature on Mars in August?
- 3) In which month was the average night-time temperature on Mars  $-68^{\circ}\text{C}$ ?
- 4) By how many degrees did the average daytime temperature on Mars change from April to June?
- 5) By how many degrees did the average night-time temperature on Mars change from January to March?
- 6) What was the difference between average daytime and night-time temperatures in February?

This line graph shows the average monthly temperatures on Mars for daytime and night time.



A Line Graph to Show the Average Monthly Temperatures on Mars



- 1) Decide whether each statement is true or false. If you think the statement is false, explain how to change it to make it true.



Mars had its coolest average daytime temperature in March.



The difference between the warmest and coolest average night-time temperatures is  $18^{\circ}\text{C}$ .



The difference between average daytime and night-time temperatures in July is  $72^{\circ}\text{C}$ .



From any one month to the next month, the average night-time temperature doesn't increase by more than  $6^{\circ}\text{C}$ .

- 2) Write your own true or false statements about the data for a friend to solve.
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In Maths this week, Year 6 have been learning to apply their addition and division skills to calculate the mean average, as well as calculating median, mode and range. Please complete the questions below.

- Calculate the mean number of crayons:

Crayon colour	Amount
Blue	14
Green	11
Red	10
Yellow	9

- Hassan is the top batsman for the cricket team. His scores over the year are: 134, 60, 17, 63, 38, 84, 11  
Calculate the mean number of runs Hassan scored.

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The mean number of goals scored in 6 football matches was 4.

Use this information to calculate how many goals were scored in the 6<sup>th</sup> match:

Match number	Number of goals
1	8
2	4
3	6
4	2
5	1
6	

Three football teams each play 10 matches over a season. The mean number of goals scored by each team was 2.

How many goals might the teams have scored in each match?

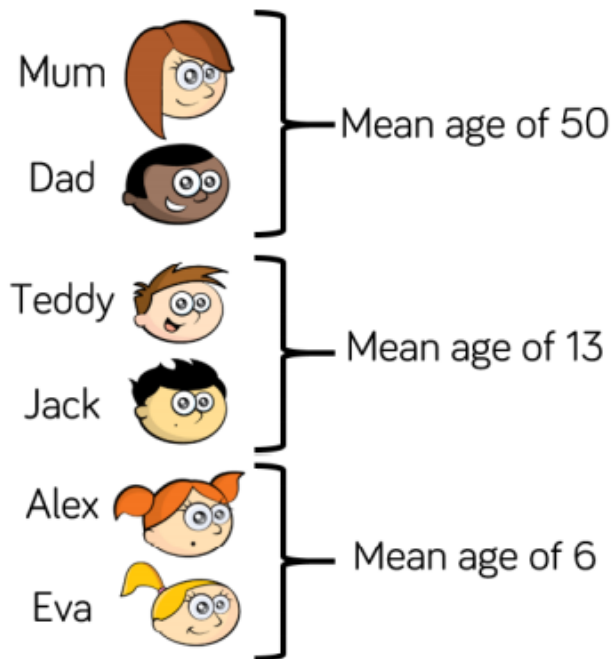
How many solutions can you find?



Work out the age of each member of the family if:

Mum is 48 years old.

Teddy is 4 years older than Jack and 7 years older than Alex.



Calculate **the mean** age of the whole family.



# Mean, Median, Mode, Range

## Lovely Lucy's Ladies Wear

Lovely Lucy has a beautiful shop in town that sells all kinds of ladies' clothing, from colourful blouses to pretty dresses and tailored trousers.

Unfortunately, Lovely Lucy is not very good at calculating her sales and always makes mistakes. She needs your help please!

Calculate the mean, median, mode and range of the following sales.

1. Monday dress sales:

\$40	\$45	\$50	\$40	\$42	\$39	\$40	\$41	\$50
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a) What was the average price paid? (Mean)

b) What was the middle price paid? (Median)

c) What was the most common price paid? (Mode)



d) What was the range of prices paid?

2. Tuesday trouser sales:

\$25	\$28	\$29	\$27	\$25	\$27	\$27	\$29	\$31
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a) What was the average price paid? (Mean)

b) What was the middle price paid? (Median)

c) What was the most common price paid? (Mode)

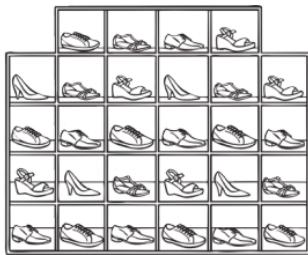
d) What was the range of prices paid?

# Mean, Median, Mode, Range

## Lovely Lucy's Ladies Wear

3. Wednesday shoe sales:

Size 6	Size 7	Size 4	Size 6	Size 7	Size 7	Size 4	Size 6	Size 5
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a) What was the average shoe size, to the nearest whole number? (Mean)

b) What was the middle shoe size? (Median)

c) What was the most common shoe size? (Mode)

d) What was the range of shoe sizes?

## Reading Comprehension

Both Year 5 & 6 – Please read the text below and answer the reading comprehension questions.

## The Room

Guy Fawkes shivered. Guy, Guido, John Johnson; he'd had many names. Whoever he was now, he was cold. The undercroft doors, though shut, left a gaping hole at their top where the arched doorway stretched up. The dim light from Guy's lantern served only to throw the hole into darker shadow. From where he sat, it yawned like a great, depthless mouth, sucking any heat from the room.

Guy pulled his cloak tighter around his neck; pulled his hat a little lower. He could not seem to stop his foot tapping, the toe of his boot knocking out a quiet but furious rhythm on the cobbled floor.

It had been hours since they had searched the place. That was it, surely? No more searches, please God! Surely they were satisfied? "Firewood and coal, firewood and coal," he'd said. That's all they'd found. A shallow poke in the pile of wood, a few logs lifted. Nothing deep enough to find what really lay beneath James' throne, dormant and waiting, one spark away from history...

Guy got up, blowing into his hands. He paced the length of the basement, back and forth. He'd done the walk enough times since the soldiers had raided to know that it would be 28 paces from one end to the other. He walked up and down to keep himself warm, but it didn't make too much difference. More than anything, it stopped his foot tapping.

He glanced over at the wood pile. He'd done a good job. The logs were packed tight and stacked high. Even to nosing soldiers, the group's cover story had held up. He was John Johnson, servant to Thomas Percy, minding his lord's warmth for the winter.

Or at least he was when asked. Right now, he was Guy Fawkes and he was cold. Cold and twitchy. Something scuttled in the alleyway outside and Guy froze, hardly daring to breathe. Soldiers? No, it must have been a rat. He needed to calm down. This night and the following day were times for cool heads. Had he not held his nerve as he stood in battle for the Spanish army? Had he not controlled the nervous crack in his voice when the soldiers questioned him? Surely, he would last the night without jumping at every cat or rat which moved in the cellars and passages below the Palace of Westminster!

He took a breath and focused himself on why he was here, and what had led him to this point. He thought of Robert, of Thomas, of the Wrights and the Winters. He thought of Tresham. Had he written that hateful letter? A man could spend all night second-guessing his decisions. When they'd questioned Tresham, he was desperate to proclaim his innocence to Catesby and Thomas Winter; but then who wouldn't be?

They were men about to assassinate the king and his parliament; it was unlikely they would balk at the idea of dropping a traitor's body in the Thames.

Whatever his fears and motives, Tresham had convinced the others that the letter and its words were not his. Guy was just going to have to hope Francis was telling the truth. He had few other options.

Regardless of who had sent the letter, it *had* been sent. It *had* been received. The appearance of the soldiers confirmed that. It was no random search.

Another noise echoed through the alley. Guy raised his lantern higher, blew out his breath quickly but quietly and slinked towards the doors. He set his lantern down behind the pillars supporting the archway and opened the left-side door a crack. It was weighty and rough; something solid in a night of half-seen shadows and imagined footsteps. As his eyes adjusted to the gloom beyond the door, he scanned the passageway.

Nothing.

Those rats! As he creaked the door closed once more, Guy promised himself that he would find a rat in the morning and wedge it fast between two barrels of gunpowder. Then all his enemies, large and small would go up together in one great burst of flame. A smirk crossed his face at the thought. Kings and rats. It wouldn't matter how important or how tiny the world thought things were when the floor erupted and scorching heat consumed them! Everyone's equal in a fireball..

Thud, thud, thud!

The door reverberated with the unmistakable sound of a sword hilt striking thick wood. The heat drained from Guy's body. It was as though his heart was pulled back and down through his chest.

"Open in the name of the King!"

What should he do? Flee? The doorway at the other end of the undercroft led out into the maze of Parliament's buildings. Stay and pray that the firewood again hid the thirty-six barrels of death stacked up tall?

"Open now!"

They knew he was there. His shaking hand, almost by itself, reached out to lift the latch...

Section A

1. How had the plotters hidden their gunpowder?

2. 'They were men about to assassinate the king and his parliament; it was unlikely they would baulk at the idea of dropping a traitor's body in the Thames.' What is the author saying might happen to Tresham?

3. Is Guy religious? How can you tell?

4. What does the word 'warmth' mean in the fifth paragraph?

5. Where is the undercroft Guy is hiding in?

6. What is the effect of the author putting the word 'had' in italics?

7. What does the clause 'wedge it fast' mean in the sentence about finding a rat in the morning?

8. 'Kings and rats. It wouldn't matter how important or how tiny the world thought things were when the floor erupted and scorching heat consumed them! Everyone's equal in a fireball..'

What do you think the author wants people to think about rich and poor when they read this?

9. After reading the first three paragraphs, stop and answer this question: how would you describe Guy's mood? Give evidence for your answer.

10. What is Tresham's first name?

11. What does it mean to 'balk' at something?

12. How does the ellipsis (three dots) at the end of the story add to the suspense?

Section D

13. Knowing that the story is about the Gunpowder Plot, explain the phrase 'one spark away from history...'. What is the intended effect of this phrase by the author?

14. List all the conspirators mentioned in this text. Make sure to include full names when they have been given.

15. Explain and discuss the effectiveness of the phrase 'thirty-six barrels of death'.