

White Rose
MATHS

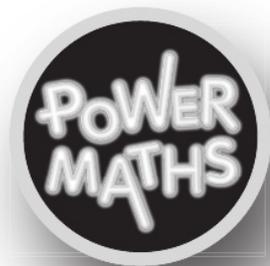
White Rose Maths Edition

Year 6 Practice Book 6C



Pearson

Series Editor: Tony Staneff



Year 6 Practice Book

6C

White Rose
MATHS

White Rose Maths Edition



Did you use any maths in real life over the holiday? Write down what maths you find useful.

This book belongs to _____ .

My class is _____ .

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This looks
like a good
challenge!



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It is time to do
some practice!



How to use this book

Do you remember how to use this **Practice Book**?



Use the **Textbook** first to learn how to solve this type of problem.

Unit 1.2: Statistics, Lesson 1

Interpret line graphs

Discover

Share

This graph shows temperatures above and below 0. There are values above and below the x-axis.

a) The temperature at 6 am was 5 °C.
The temperature at 6:30 am was 2 °C.
The temperature increased by 3 °C.

b) The temperature was 1 °C between 7 am and 7:30 am.
It was 1 °C just before 7:15 am. A reasonable estimate would be 7:10 am.

Unit 1.2: Statistics, Lesson 1

Interpret line graphs

1 The line graph shows how the temperature of some tomato sauce cools in the freezer.

a) What temperature is the tomato sauce at the following times?
2:30 pm °C
5:00 pm °C

b) How much does the temperature decrease between 2:00 pm and 5:30 pm?
It decreases by °C.

c) At what time is the temperature of the tomato sauce 0 °C?
 pm

d) Estimate the temperature of the sauce at 5:45 pm. °C.

This shows you which **Textbook** page you need.

Have a go at questions by yourself using this **Practice Book**. Use what you have learnt.



Challenge questions make you think hard!



Questions with this light bulb make you think differently.

Reflect

Each lesson ends with a **Reflect** question so you can think about what you have learnt.

Use **My power points** at the back of this book to keep track of what you have learnt.



Reflect

Give tips for how to read a line graph accurately.

- _____
- _____
- _____
- _____

8

My journal

At the end of a unit your teacher will ask you to fill in **My journal**.

This will help you show how much you can do now that you have finished the unit.

Date: _____ Unit 12: Statistics

End of unit check

My journal

1 Use the information below to draw a line graph to convert \$ (dollars) and £ (pounds). Find the approximate number of £s that equal \$19.

Use these numbers: 15 dollars is worth 10 pounds.

39

Unit 12: Statistics

2 Add notes to this diagram to show when you would use each type of chart and why its features would be useful.

Flower	Tally
red	
blue	

Number of ice-creams

Day of the week	Number of ice-creams
Mon	10
Tue	15
Wed	20
Thu	25
Fri	30
Sat	35
Sun	40

Number of creatures

Type of creature	Number of creatures
dog	10
cat	15
snake	20
fish	25
bird	30

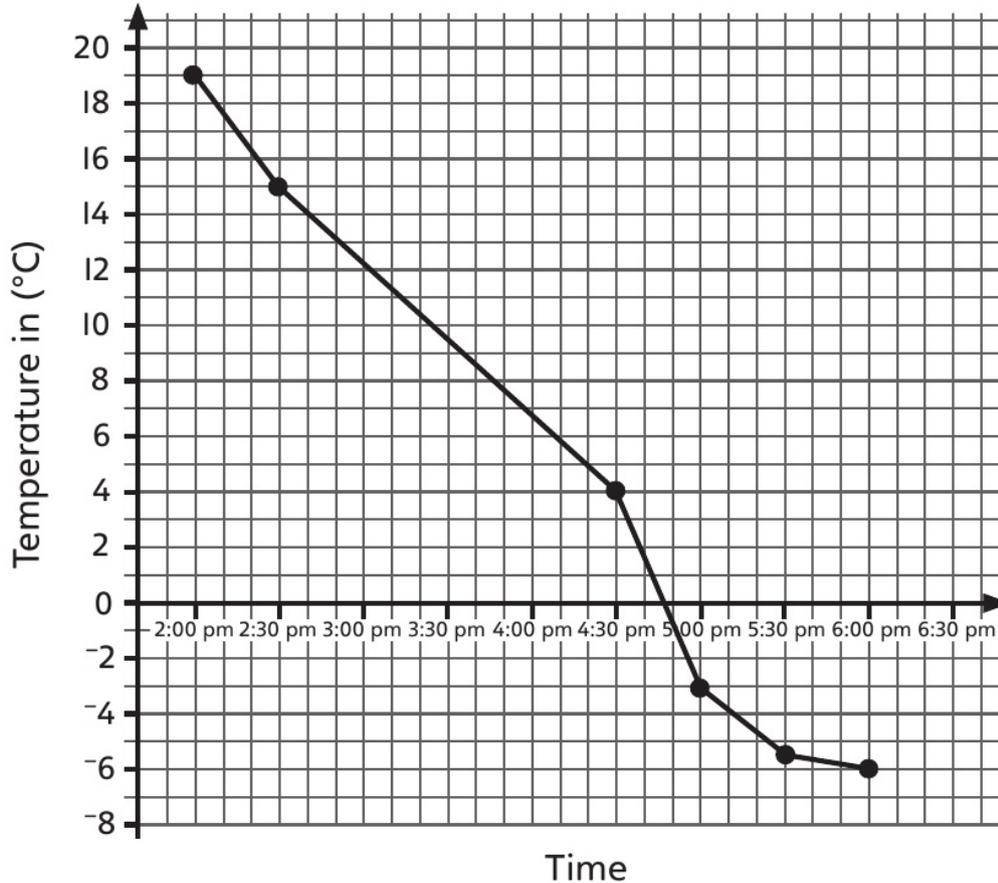
Power check

How do you feel about your work in this unit? 😞? 😊 😄

40

Interpret line graphs

- I The line graph shows how the temperature of some tomato sauce cools in the freezer.



- a) What temperature is the tomato sauce at the following times?

2:30 pm °C

5:00 pm °C

- b) How much does the temperature decrease between 2:00 pm and 5:30 pm?

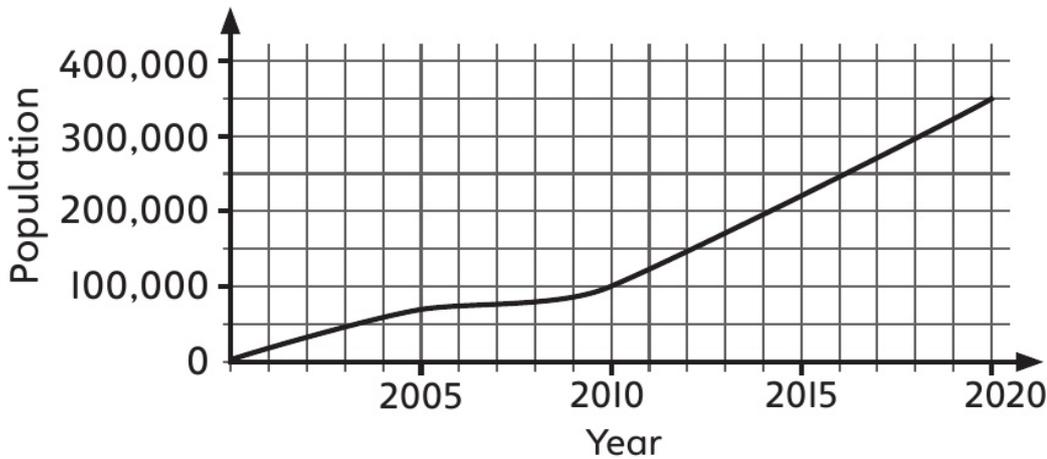
It decreases by °C.

- c) At what time is the temperature of the tomato sauce 0 °C?

: pm

- d) Estimate the temperature of the sauce at 5:45 pm. °C.

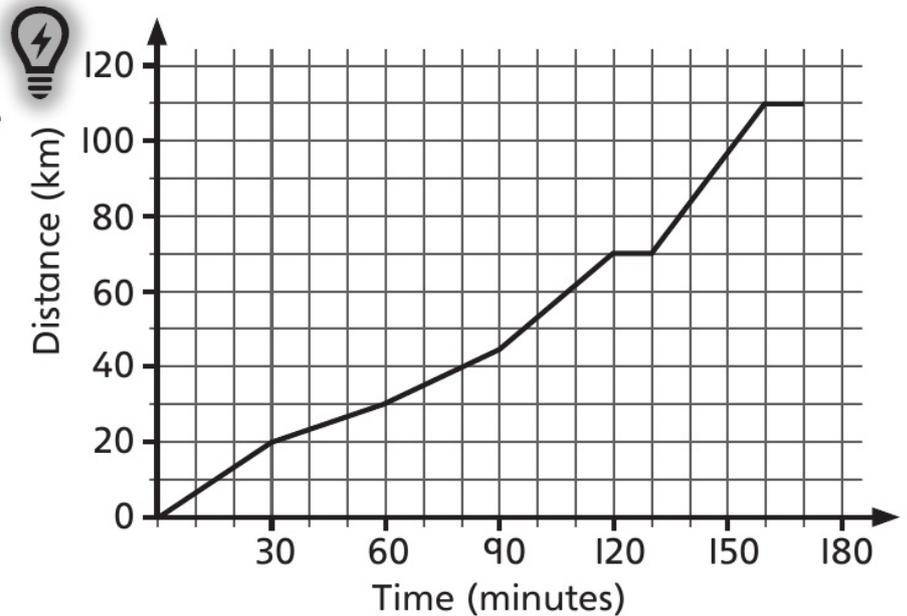
- 2 Use the line graph to estimate the population in 2005 and 2015.



2005:

2015:

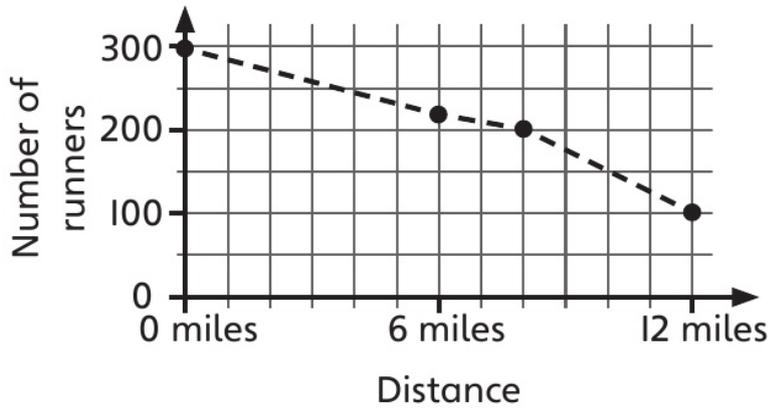
- 3 This line graph shows the distance and time for a cyclist travelling in a road race.



- a) How far did the cyclist race? km
- b) Complete this sentence: The cyclist stopped for 10 minutes between minutes and minutes.
- c) When was the cyclist riding fastest? How can you tell?



4 300 runners started a 12 mile race.



- a) What fraction of the runners completed the race? $\frac{\boxed{}}{\boxed{}}$
- b) Estimate what percentage of the runners completed fewer than 6 miles. $\boxed{}\%$
- c) Estimate how many runners completed at least 75% of the race. $\boxed{}$



Reflect

Give tips for how to read a line graph accurately.

- _____
- _____
- _____
- _____

Draw line graphs

- I** a) Use the information in the table to complete the conversion graph.

Feet	0	2	3	4
Inches	0	24	36	48

- b) Now use the graph to fill in the missing information.

1 foot = inches

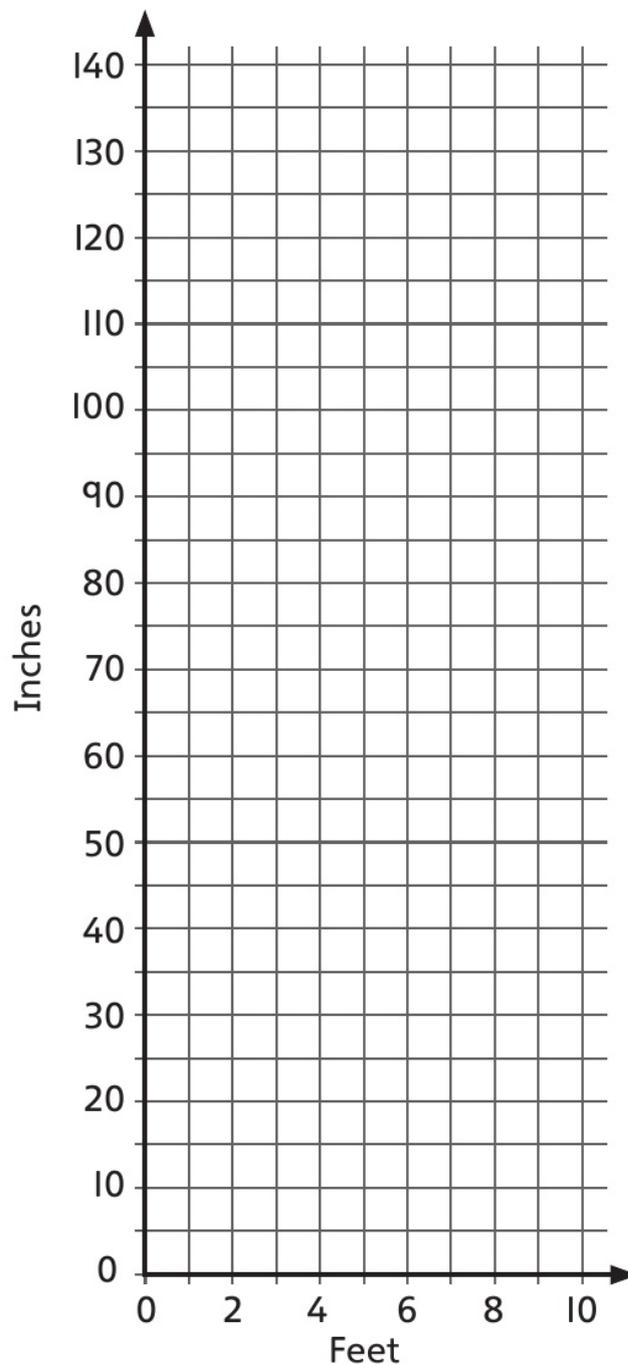
10 feet = inches

$3\frac{1}{2}$ feet = inches

$5\frac{1}{4}$ feet = inches

30 inches = feet

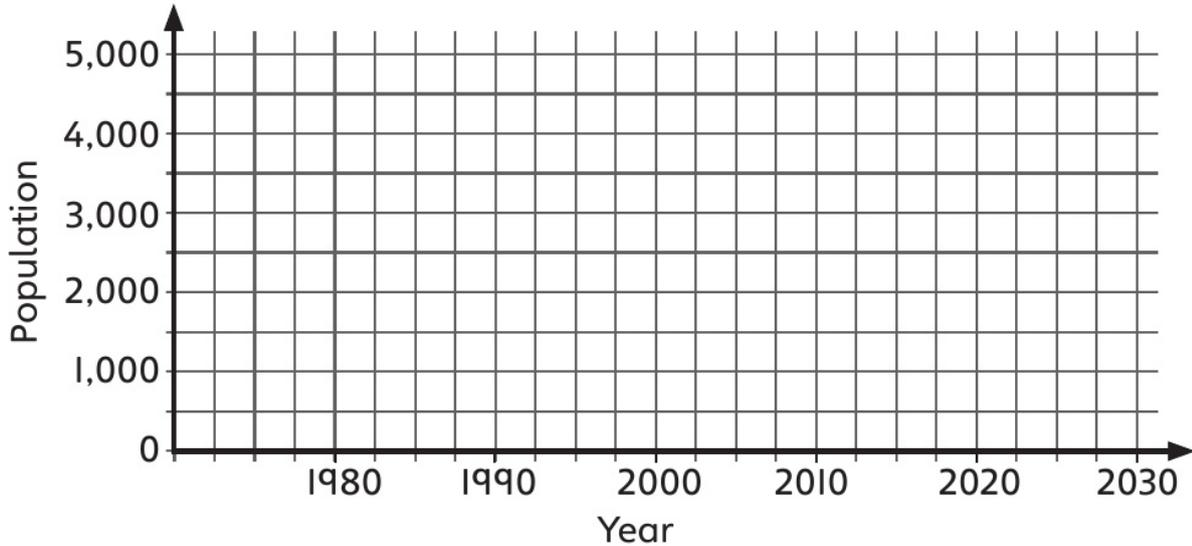
100 inches = feet



2 This table shows the number of people living in a village over time.

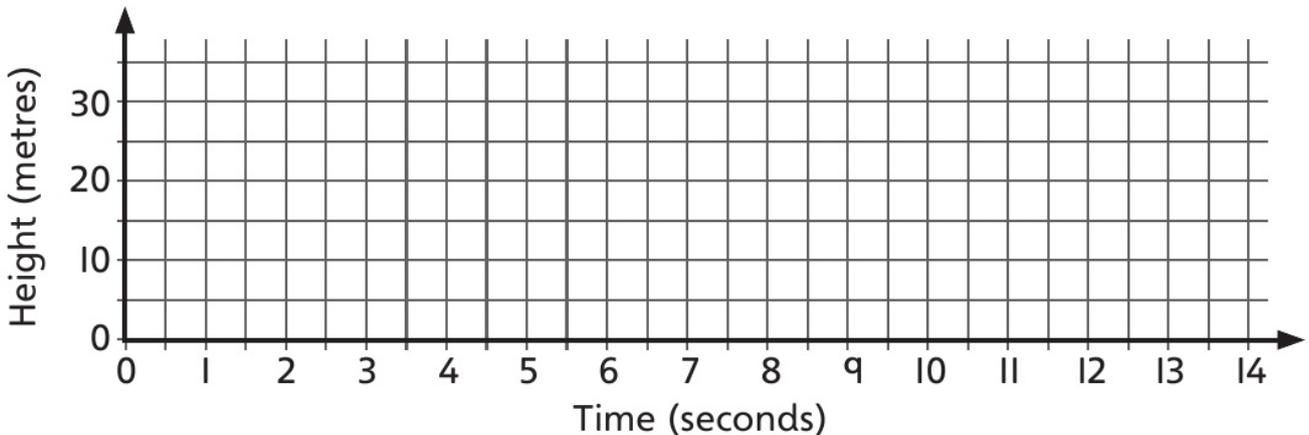
Year	1980	1990	2000	2010	2020	2030
Population	800	1,100	1,500	2,300	3,400	

Use this information to draw a line graph of the population and predict the population in 2030.



3 This table shows the flight of a firework. Complete the line graph from the information and predict when the firework will land.

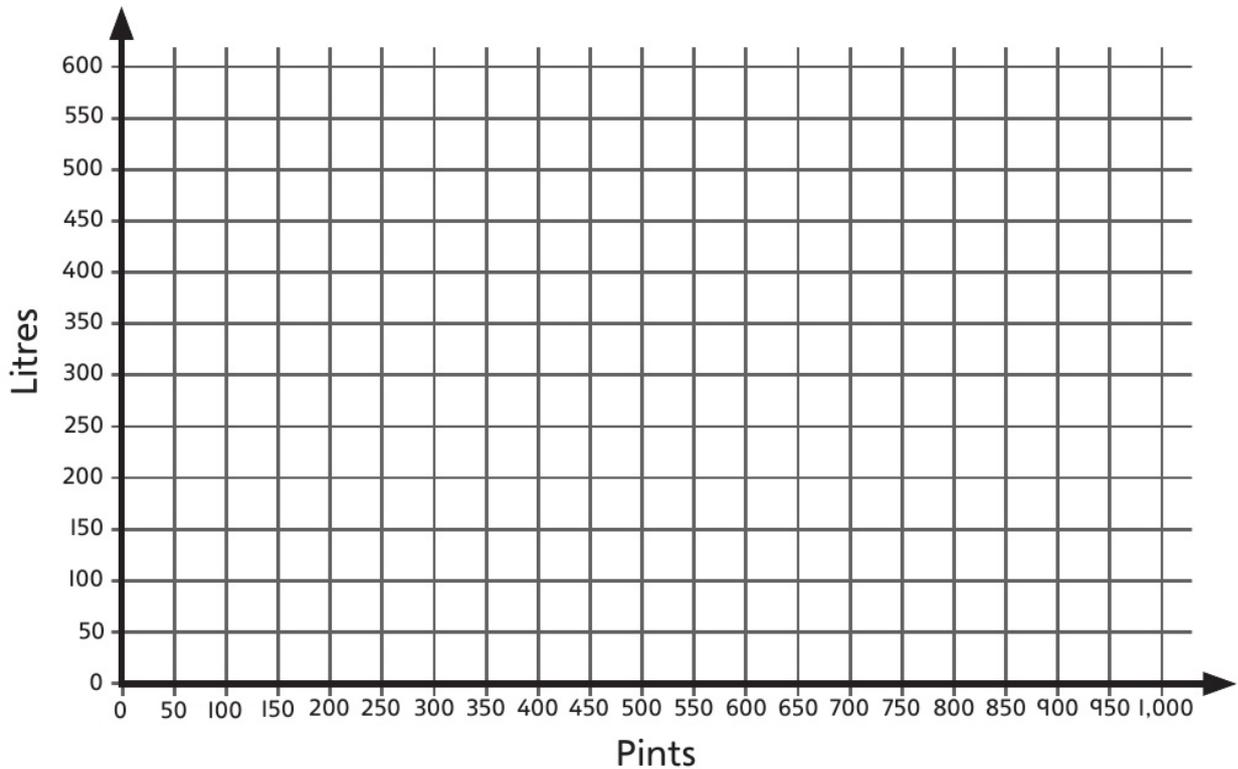
Time in seconds	0	2	4	6	8	10	
Height in metres	0	20	30	35	28	15	0



CHALLENGE

- 4 Complete the line graph to show the conversion between litres and pints.

Litres	100	200	300	400	500
Pints	176	352	528		



Use the graph to complete the following conversions.

Litres	100		25	
Pints		150		10

Reflect

Discuss with a partner how you would draw a line graph to convert from metres to kilometres.

