

Maths — No Problem! Guidance

Content Catch Up for Year 6

Table of Contents

Introduction	1
Lesson Classification Guide	1
Lesson Classification Overview	2
Key Lesson	2
Combined	2
Independent	2
Integrated	2
Non-Statutory	2
If Time Allows	2
Spiral Curriculum	3
Problem Solving vs Core Concepts	3
Year 6 Assessment	3
Journaling	4
Other Resources	4
Textbook 6A: Content Catch Up	5
Textbook 6B: Content Catch Up	11
Year 6: Combined Lesson Example	20

Content Catch Up for Year 6













Ideally, we recommend completing all **Maths — No Problem!** lessons and exercises in order. But things look a bit different this year.

While the full impact of Covid-19 isn't yet clear, your pupils may need extra time before they can move on to this year's material. We've designed this guide to make the transition a bit easier and help you decide where to focus your teaching time.

This guide isn't intended to be prescriptive and we encourage you to adapt it to the specific circumstances and unique needs of your school. Use your own experiences and best professional judgement as pupils will have had very different experiences of learning during the lockdown.

Lesson Classification Guide

The lessons for Year 6 have been reviewed and categorised using the following criteria:

- KEY LESSON**   This is a key lesson.
- COMBINED**   This lesson can be combined with other lessons in the chapter.
- INDEPENDENT**   This lesson can be completed by pupils independently.
- INTEGRATED**   This lesson can be integrated into other curriculum areas.
- NON-STATUTORY**   This lesson is not a statutory requirement.
- IF TIME ALLOWS**   This lesson can be completed if time allows.

Lesson Classification Overview

Before getting started, here are a few key terms to keep in mind:

Key Lesson

A key lesson introduces something new like a new mathematical concept, method, language or image. All the sections of these lessons should be completed.

Combined

This encourages you to choose key elements from two lessons to make a combined lesson, instead of covering two complete lessons quickly. Lessons that can be combined tend to be key lessons. They can be combined because they both cover the same key concepts. See how the Year 6 example in this guide takes elements from Lessons 3 and 4 in Chapter 14: Graphs and Averages.

[Go to Lesson Example](#)

Independent

Some topics are more straightforward than others. For example, when they are more informational than conceptual. These lessons can be completed by pupils as independent study units outside of school instructional time. In Year 6, none of the lessons are marked as Independent but your pupils may be capable of doing this for some lessons.

Integrated

Some lessons or topics can be integrated into other curriculum areas. None of the lessons in Year 6 have been marked as Integrated, but this doesn't mean it can't be done. For example, in Chapter 13: Position and Movement, Lesson 3 on measuring and comparing length can be adapted and delivered outside as part of a PE lesson.

Non-Statutory

All lessons are a statutory requirement unless marked as non-statutory. In Year 6, none of the lessons are marked as non-statutory.

If Time Allows

Some of the lessons within a chapter might cover the same objective and in some cases not all of these lessons need to be completed if time is an issue. Leaving out problem-solving lessons is not as detrimental as leaving out lessons on core concepts. Head to Problem Solving vs Core Concepts in the next section to learn more.

Spiral Curriculum

MNP Textbooks follow Bruner’s spiral approach, where topics are revisited at increasing levels of difficulty. New skills and concepts are clearly related to previous learning with the aim of progressively increasing competency. This means if pupils miss some lessons on a particular topic in one year, they’ll have a chance to revisit the topic the following year. Any key lessons missed in Year 5 can be integrated into Year 6. For example, if Textbook 5B, Chapter 13 on volume was missed last academic year, the lessons can be integrated into Textbook 6B, Chapter 11, which also covers volume. The school leadership team may need to coordinate and monitor the integration of lessons if it occurs over several year groups.

Problem Solving vs Core Concepts

Leaving out problem-solving lessons isn’t as detrimental as leaving out lessons that focus on core concepts. While problem-solving skills are a central part of the programme, all MNP lessons have been carefully designed to include a problem-solving element. Problem-solving skills are developed from Year 1 and missing some problem-solving lessons will not significantly affect pupils’ overall learning.

Generally, you can leave out the Solving Word Problems lessons at the end of chapters if necessary. These lessons are rich in content and are included to enhance pupils’ learning and deeper understanding. However, if the lessons don’t cover new concepts, consider them as optional in these exceptional circumstances.

Year 6 Assessment

Insights is a new digital assessment tool that helps identify gaps in pupils’ learning (launching this September). It’s a marking, reporting and analysis tool for MNP Assessment Papers. Use Insights with Assessment Papers B at the start of the school year to get a baseline for the new year and identify where your pupils are in their learning. Note that learners take the previous year’s B paper. That is, pupils starting in Year 6 will take Papers 5B, those starting in Year 5 will take Papers 4B and so on.

Insights provides quick, easy and accurate online marking, without needing spreadsheets or marking on the booklet. Once you’ve marked, the reports are instantly available with question level information for identifying gaps, achievement summary for class and individuals, content domain information for analysing areas of strength and weakness, and much more. Each question is linked to the national curriculum and MNP Textbooks.

Journaling

Because pupils are coming back to school after the lockdown, they may be at different starting points at the beginning of the school year. Journaling can be a particularly useful assessment method, as it allows for open-ended tasks with a low floor and high ceiling. This helps all pupils show what they can do, without the limit of what they 'should know'.

If you're new to journaling or need a quick refresh, get started with these resources:

[Why journaling leads to flexible thinking](#)








[5 types of maths journals and how to use them](#)

[How to evaluate maths journals](#)










Other Resources

Don't forget that formative and summative assessment opportunities have been built into the MNP Textbooks, Workbooks and Teacher Hub.

Textbook 6A















Key	Chapter 1: Numbers to 10 Million	Content Catch Up
	Lesson 1: Reading and Writing Numbers to 10 Million	This lesson can be combined with Lesson 2. This chapter covers the same content as Textbook 5A, Chapter 1. The difference is this chapter uses 10 million instead of 1 million.
	Lesson 2: Reading and Writing Numbers to 10 Million	This lesson can be combined with Lesson 1.
	Lesson 3: Reading and Writing Numbers to 10 Million	This lesson can be completed if time allows.
	Lesson 4: Comparing Numbers to 10 Million	This lesson can be combined with Lesson 5.
	Lesson 5: Comparing and Ordering Numbers to 10 Million	This lesson can be combined with Lesson 4.
	Lesson 6: Rounding Numbers	This lesson can be completed if time allows.
	Lesson 7: Rounding Numbers	This is a key lesson. Rounding numbers is covered in Textbook 5A, Chapter 1 but it is a good idea to revisit this.







Key	Chapter 2: Four Operations on Whole Numbers	Content Catch Up
★	Lesson 1: Using Mixed Operations	This is a key lesson.
★	Lesson 2: Using Mixed Operations	This is a key lesson.
ⓘ	Lesson 3: Multiplying by 2-Digit Numbers	This lesson can be completed if time allows. Lessons 3–8 cover concepts in Textbook 5A, Chapter 3, therefore are mainly revision. We suggest focusing on Lessons 5 and 7.
ⓘ	Lesson 4: Multiplying by 2-Digit Numbers	This lesson can be completed if time allows. Lessons 3–8 cover concepts in Textbook 5A, Chapter 3, therefore are mainly revision. We suggest focusing on Lessons 5 and 7.
★	Lesson 5: Multiplying by 2-Digit Numbers	This is a key lesson. Lessons 3–8 cover concepts in Textbook 5A, Chapter 3, therefore are mainly revision. We suggest focusing on Lessons 5 and 7.
ⓘ	Lesson 6: Multiplying by 2-Digit Numbers	This lesson can be completed if time allows. Lessons 3–8 cover concepts in Textbook 5A, Chapter 3, therefore are mainly revision. We suggest focusing on Lessons 5 and 7.
★	Lesson 7: Multiplying by 2-Digit Numbers	This is a key lesson. Lessons 3–8 cover concepts in Textbook 5A, Chapter 3, therefore are mainly revision. We suggest focusing on Lessons 5 and 7.
ⓘ	Lesson 8: Multiplying by 2-Digit Numbers	This lesson can be completed if time allows. Lessons 3–8 cover concepts in Textbook 5A, Chapter 3, therefore are mainly revision. We suggest focusing on Lessons 5 and 7.
★	Lesson 9: Dividing by 2-Digit Numbers	This is a key lesson.
★	Lesson 10: Dividing by 2-Digit Numbers	This is a key lesson.
★	Lesson 11: Dividing by 2-Digit Numbers	This is a key lesson.
ⓘ	Lesson 12: Dividing by 2-Digit Numbers	This lesson can be completed if time allows.
ⓘ	Lesson 13: Dividing by 2-Digit Numbers	This lesson can be completed if time allows.







Key	Chapter 2: Four Operations on Whole Numbers	Content Catch Up
	Lesson 14: Solving Word Problems	This lesson can be completed if time allows.
	Lesson 15: Solving Word Problems	This lesson can be completed if time allows.
	Lesson 16: Solving Word Problems	This lesson can be completed if time allows.
	Lesson 17: Finding Common Multiples	This is a key lesson.
	Lesson 18: Finding Common Multiples	This is a key lesson.
	Lesson 19: Finding Common Factors	This is a key lesson. This is covered in Textbook 5A, Chapter 3. However, there are some interesting ideas included in this lesson.
	Lesson 20: Finding Common Factors	This lesson can be completed if time allows. This is covered in Textbook 5A, Chapter 3.
	Lesson 21: Finding Prime Numbers	This lesson can be completed if time allows. This is covered in Textbook 5A, Chapter 3.
	Lesson 22: Finding Prime Numbers	This lesson can be completed if time allows. This is covered in Textbook 5A, Chapter 3.



Key	Chapter 3: Fractions	Content Catch Up
★	Lesson 1: Simplifying Fractions	This is a key lesson.
★	Lesson 2: Simplifying Fractions	This is a key lesson.
★	Lesson 3: Comparing and Ordering Fractions	This is a key lesson.
★	Lesson 4: Comparing and Ordering Fractions	This is a key lesson.
★	Lesson 5: Comparing and Ordering Fractions	This is a key lesson.
★	Lesson 6: Adding and Subtracting Fractions	This is a key lesson.
★	Lesson 7: Adding and Subtracting Fractions	This is a key lesson.
★	Lesson 8: Adding and Subtracting Fractions	This is a key lesson.
★	Lesson 9: Adding and Subtracting Fractions	This is a key lesson.
★	Lesson 10: Adding and Subtracting Fractions	This is a key lesson.
★	Lesson 11: Multiplying Fractions	This is a key lesson.
★	Lesson 12: Multiplying Fractions	This is a key lesson.
★	Lesson 13: Multiplying Fractions	This is a key lesson.
★	Lesson 14: Dividing a Fraction by a Whole Number	This is a key lesson.
★	Lesson 15: Dividing a Fraction by a Whole Number	This is a key lesson.
★	Lesson 16: Dividing a Fraction by a Whole Number	This is a key lesson.











Key	Chapter 4: Decimals	Content Catch Up
	Lesson 1: Reading and Writing Decimals	This lesson can be completed if time allows. This is a revision lesson as decimals are covered in Textbook 5A, Chapter 7.
	Lesson 2: Dividing Whole Numbers	This is a key lesson.
	Lesson 3: Dividing Whole Numbers	This is a key lesson.
	Lesson 4: Writing Fractions as Decimals	This lesson can be completed if time allows. This is covered in Textbook 5A, Chapter 7.
	Lesson 5: Writing Fractions as Decimals	This is a key lesson.
	Lesson 6: Multiplying Decimals	This lesson can be combined with Lesson 7.
	Lesson 7: Multiplying Decimals	This lesson can be combined with Lesson 6.
	Lesson 8: Multiplying Decimals	This is a key lesson.
	Lesson 9: Multiplying Decimals	This lesson can be completed if time allows.
	Lesson 10: Dividing Decimals	This is a key lesson.
	Lesson 11: Dividing Decimals	This lesson can be completed if time allows. This covers the same concept as Lesson 10, therefore you can omit this lesson if pupils are confident dividing decimals.
	Lesson 12: Multiplying a Decimal by a 2-Digit Number	This is a key lesson.
	Lesson 13: Dividing a Decimal by a 2-Digit Number	This is a key lesson.
	Lesson 14: Dividing a Decimal by a 2-Digit Number	This is a key lesson.

Key	Chapter 5: Measurements	Content Catch Up
	Lesson 1: Converting Units of Length	This is a key lesson. If Textbook 5B, Chapter 11 on measurements was missed or not covered sufficiently last year, integrate Lessons 1–4 in Chapter 11 into Lessons 1–3 in this chapter.
	Lesson 2: Converting Units of Length	This is a key lesson. If Textbook 5B, Chapter 11 on measurements was missed or not covered sufficiently last year, integrate Lessons 1–4 in Chapter 11 into Lessons 1–3 in this chapter.
	Lesson 3: Converting Units of Length	This is a key lesson. If Textbook 5B, Chapter 11 on measurements was missed or not covered sufficiently last year, integrate Lessons 1–4 in Chapter 11 into Lessons 1–3 in this chapter.
	Lesson 4: Converting Units of Mass	This is a key lesson. If Textbook 5B, Chapter 11 on measurements was missed or not covered sufficiently last year, complete Lessons 5–8 in Chapter 11 and integrate this lesson.
	Lesson 5: Converting Units of Volume	This is a key lesson.
	Lesson 6: Converting Units of Time	This lesson can be completed if time allows. This objective is covered in Textbook 4A, Chapter 7: Time.

Key	Chapter 6: Solving Word Problems	Content Catch Up
	Lesson 1: Solving Word Problems	This lesson can be completed if time allows.
	Lesson 2: Solving Word Problems	This lesson can be completed if time allows.
	Lesson 3: Solving Word Problems	This lesson can be completed if time allows.
	Lesson 4: Solving Word Problems	This lesson can be completed if time allows.
	Lesson 5: Solving Word Problems	This lesson can be completed if time allows.
	Lesson 6: Solving Word Problems	This lesson can be completed if time allows.

Textbook 6B

Key	Chapter 7: Percentage	Content Catch Up
★	Lesson 1: Finding the Percentage of a Number	This is a key lesson.
★	Lesson 2: Finding the Percentage of a Quantity	This is a key lesson.
★	Lesson 3: Finding Percentage Change	This is a key lesson.
★	Lesson 4: Using Percentage to Compare	This is a key lesson.
Key	Chapter 8: Ratio	Content Catch Up
★	Lesson 1: Comparing Quantities	This is a key lesson. If time is an issue, this lesson can be combined with Lesson 2.
⏪⏩	Lesson 2: Comparing Quantities	This lesson can be combined with Lesson 1.
★	Lesson 3: Comparing Quantities	This is a key lesson. The notation $a : b$ is non-statutory, however it is used in all the subsequent lessons in this chapter. Ratio questions are frequently solved using the bar model, which is why they are included in this chapter.
★	Lesson 4: Comparing Quantities	This is a key lesson.
⌚	Lesson 5: Comparing Quantities	This lesson can be completed if time allows. Lessons 4 and 5 cover the same objective. The main difference between them is the units used rather than the concept, therefore if time is an issue, you can omit this lesson.
★	Lesson 6: Comparing Numbers	This is a key lesson. This is a very useful lesson to complete as it links to equivalent fractions.
★	Lesson 7: Solving Problems	This is a key lesson. This lesson is useful as it consolidates work completed earlier in the chapter.
⌚	Lesson 8: Solving Problems	This lesson can be completed if time allows.
⌚	Lesson 9: Solving Problems	This lesson can be completed if time allows.

Key	Chapter 9: Algebra	Content Catch Up
	Lesson 1: Describing a Pattern	This is a key lesson.
	Lesson 2: Describing a Pattern	This is a key lesson.
	Lesson 3: Describing a Pattern	This lesson can be completed if time allows. Lessons 3 and 4 are great lessons, however if time is an issue, they can be omitted if all the other lessons in this chapter are completed.
	Lesson 4: Describing a Pattern	This lesson can be completed if time allows. Lessons 3 and 4 are great lessons, however if time is an issue, they can be omitted if all the other lessons in this chapter are completed.
	Lesson 5: Writing Algebraic Expressions	This is a key lesson.
	Lesson 6: Writing and Evaluating Algebraic Expressions	This is a key lesson.
	Lesson 7: Writing and Evaluating Algebraic Expressions	This is a key lesson.
	Lesson 8: Writing Formulae	This is a key lesson.
	Lesson 9: Using Formulae	This is a key lesson.
	Lesson 10: Solving Equations	This is a key lesson.

Key	Chapter 10: Area and Perimeter	Content Catch Up
★	Lesson 1: Finding the Area and the Perimeter of Rectangles	This is a key lesson. If Textbook 5B, Chapter 12: Finding the Perimeter was missed or not covered sufficiently last year, you will need to integrate that chapter with this one. Complete Lessons 1 and 2 in Chapter 12 before this lesson.
★	Lesson 2: Finding the Area of Parallelograms	This is a key lesson. If Textbook 5B, Chapter 12: Finding the Perimeter was missed or not covered sufficiently last year, you will need to integrate that chapter with this one. Complete Lessons 1 and 2 in Chapter 12 before Lesson 1 in this chapter.
★	Lesson 3: Finding the Area of Triangles	This is a key lesson. If Textbook 5B, Chapter 12: Finding the Perimeter was missed or not covered sufficiently last year, you will need to integrate that chapter with this one. Complete Lessons 1 and 2 in Chapter 12 before Lesson 1 in this chapter.
⏸	Lesson 4: Finding the Area of Triangles	This lesson can be combined with Lesson 5. Lessons 4 and 5 cover objectives covered in Lessons 1–3 but at a higher level.
⏸	Lesson 5: Finding the Area of Triangles	This lesson can be combined with Lesson 4. Lessons 4 and 5 cover objectives covered in Lessons 1–3 but at a higher level.
⌚	Lesson 6: Finding the Area of Parallelograms	This lesson can be completed if time allows. The objectives are covered in Lessons 1–3.

Key	Chapter 11: Volume	Content Catch Up
★	Lesson 1: Finding the Volume of Cubes and Cuboids	This is a key lesson. If Textbook 5B, Chapter 13: Volume was missed or not covered sufficiently last year, you will need to integrate that chapter with this one. Complete Lesson 1 in Chapter 13 before this lesson.
★	Lesson 2: Finding the Volume of Cubes and Cuboids	This is a key lesson. If Textbook 5B, Chapter 13: Volume was missed or not covered sufficiently last year, you will need to integrate that chapter with this one. Complete Lesson 1 in Chapter 13 before Lesson 1 in this chapter.
★	Lesson 3: Finding the Volume of Cubes and Cuboids	This is a key lesson. If Textbook 5B, Chapter 13: Volume was missed or not covered sufficiently last year, you will need to integrate that chapter with this one. Complete Lesson 1 in Chapter 13 before Lesson 1 in this chapter.
★	Lesson 4: Finding the Volume of Cubes and Cuboids	This is a key lesson. If Textbook 5B, Chapter 13: Volume was missed or not covered sufficiently last year, you will need to integrate that chapter with this one. Complete Lesson 1 in Chapter 13 before Lesson 1 in this chapter.
⌵	Lesson 5: Solving Problems Involving the Volume of Solids	This lesson can be completed if time allows.

Key	Chapter 12: Geometry	Content Catch Up
★	Lesson 1: Investigating Vertically Opposite Angles	This is a key lesson. If Textbook 5B, Chapter 9: Geometry was missed or not covered sufficiently last year, you will need to complete Lessons 1–7 before starting this chapter. Then Lessons 8–13 can be integrated with this chapter.
★	Lesson 2: Solving Problems Involving Angles	This is a key lesson. If Textbook 5B, Chapter 9: Geometry was missed or not covered sufficiently last year, you will need to complete Lessons 1–7 before starting this chapter. Then Lessons 8–13 can be integrated with this chapter.
★	Lesson 3: Investigating Angles in Triangles	This is a key lesson. If Textbook 5B, Chapter 9: Geometry was missed or not covered sufficiently last year, you will need to complete Lessons 1–7 before starting this chapter. Then Lessons 8–13 can be integrated with this chapter.
★	Lesson 4: Investigating Angles in Quadrilaterals	This is a key lesson. If Textbook 5B, Chapter 9: Geometry was missed or not covered sufficiently last year, you will need to complete Lessons 1–7 before starting this chapter. Then Lessons 8–13 can be integrated with this chapter.
★	Lesson 5: Solving Problems Involving Angles in Triangles and Quadrilaterals	This is a key lesson. If Textbook 5B, Chapter 9: Geometry was missed or not covered sufficiently last year, you will need to complete Lessons 1–7 before starting this chapter. Then Lessons 8–13 can be integrated with this chapter.
★	Lesson 6: Naming Parts of a Circle	This is a key lesson. If Textbook 5B, Chapter 9: Geometry was missed or not covered sufficiently last year, you will need to complete Lessons 1–7 before starting this chapter. Then Lessons 8–13 can be integrated with this chapter.
★	Lesson 7: Solving Problems Involving Angles in a Circle	This is a key lesson. If Textbook 5B, Chapter 9: Geometry was missed or not covered sufficiently last year, you will need to complete Lessons 1–7 before starting this chapter. Then Lessons 8–13 can be integrated with this chapter.
★	Lesson 8: Drawing Quadrilaterals	This is a key lesson. If Textbook 5B, Chapter 9: Geometry was missed or not covered sufficiently last year, you will need to complete Lessons 1–7 before starting this chapter. Then Lessons 8–13 can be integrated with this chapter.
★	Lesson 9: Drawing Triangles	This is a key lesson. If Textbook 5B, Chapter 9: Geometry was missed or not covered sufficiently last year, you will need to complete Lessons 1–7 before starting this chapter. Then Lessons 8–13 can be integrated with this chapter.

Key	Chapter 12: Geometry	Content Catch Up
-----	----------------------	------------------

★	Lesson 10: Drawing Triangles	<p>This is a key lesson.</p> <p>If Textbook 5B, Chapter 9: Geometry was missed or not covered sufficiently last year, you will need to complete Lessons 1–7 before starting this chapter. Then Lessons 8–13 can be integrated with this chapter.</p>
★	Lesson 11: Drawing Nets of Three-Dimensional Shapes	<p>This is a key lesson.</p> <p>If Textbook 5B, Chapter 9: Geometry was missed or not covered sufficiently last year, you will need to complete Lessons 1–7 before starting this chapter. Then Lessons 8–13 can be integrated with this chapter.</p>
★	Lesson 12: Drawing Nets of Three-Dimensional Shapes	<p>This is a key lesson.</p> <p>If Textbook 5B, Chapter 9: Geometry was missed or not covered sufficiently last year, you will need to complete Lessons 1–7 before starting this chapter. Then Lessons 8–13 can be integrated with this chapter.</p>

Key	Chapter 13: Position and Movement	Content Catch Up
-----	--------------------------------------	------------------

★	Lesson 1: Showing Negative Numbers	<p>This is a key lesson.</p> <p>If Textbook 5B, Chapter 10: Position and Movement was missed or not covered sufficiently last year, you will need to complete Lesson 1 before starting this chapter. Lessons 2–4 are covered by this chapter but Lesson 5 on successive reflections will need to be completed.</p>
★	Lesson 2: Describing Position	<p>This is a key lesson.</p> <p>If Textbook 5B, Chapter 10: Position and Movement was missed or not covered sufficiently last year, you will need to complete Lesson 1 before starting this chapter. Lessons 2–4 are covered by this chapter but Lesson 5 on successive reflections will need to be completed.</p>
★	Lesson 3: Describing Position	<p>This is a key lesson.</p> <p>If Textbook 5B, Chapter 10: Position and Movement was missed or not covered sufficiently last year, you will need to complete Lesson 1 before starting this chapter. Lessons 2–4 are covered by this chapter but Lesson 5 on successive reflections will need to be completed.</p>
★	Lesson 4: Drawing Polygons on a Coordinate Grid	<p>This is a key lesson.</p> <p>If Textbook 5B, Chapter 10: Position and Movement was missed or not covered sufficiently last year, you will need to complete Lesson 1 before starting this chapter. Lessons 2–4 are covered by this chapter but Lesson 5 on successive reflections will need to be completed.</p>

Key	Chapter 13: Position and Movement	Content Catch Up
★	Lesson 5: Describing Translations	<p>This is a key lesson.</p> <p>If Textbook 5B, Chapter 10: Position and Movement was missed or not covered sufficiently last year, you will need to complete Lesson 1 before starting this chapter. Lessons 2–4 are covered by this chapter but Lesson 5 on successive reflections will need to be completed.</p>
★	Lesson 6: Describing Reflections	<p>This is a key lesson.</p> <p>If Textbook 5B, Chapter 10: Position and Movement was missed or not covered sufficiently last year, you will need to complete Lesson 1 before starting this chapter. Lessons 2–4 are covered by this chapter but Lesson 5 on successive reflections will need to be completed.</p>
★	Lesson 7: Describing Movements	<p>This is a key lesson.</p> <p>If Textbook 5B, Chapter 10: Position and Movement was missed or not covered sufficiently last year, you will need to complete Lesson 1 before starting this chapter. Lessons 2–4 are covered by this chapter but Lesson 5 on successive reflections will need to be completed.</p>
★	Lesson 8: Describing Movements	<p>This is a key lesson.</p> <p>If Textbook 5B, Chapter 10: Position and Movement was missed or not covered sufficiently last year, you will need to complete Lesson 1 before starting this chapter. Lessons 2–4 are covered by this chapter but Lesson 5 on successive reflections will need to be completed.</p>
★	Lesson 9: Using Algebra to Describe Position	<p>This is a key lesson.</p> <p>If Textbook 5B, Chapter 10: Position and Movement was missed or not covered sufficiently last year, you will need to complete Lesson 1 before starting this chapter. Lessons 2–4 are covered by this chapter but Lesson 5 on successive reflections will need to be completed.</p>
★	Lesson 10: Using Algebra to Describe Movements	<p>This is a key lesson.</p> <p>If Textbook 5B, Chapter 10: Position and Movement was missed or not covered sufficiently last year, you will need to complete Lesson 1 before starting this chapter. Lessons 2–4 are covered by this chapter but Lesson 5 on successive reflections will need to be completed.</p>

Key	Chapter 14: Graphs and Averages	Content Catch Up
★	Lesson 1: Understanding Averages	This is a key lesson. Graphs are covered in Textbook 5A, Chapter 5, so pupils will be familiar with some of the concepts in this chapter.
★	Lesson 2: Calculating the Mean	This is a key lesson.
⏮	Lesson 3: Calculating the Mean	This lesson can be combined with Lesson 4.
⏮	Lesson 4: Solving Problems Involving the Mean	This lesson can be combined with Lesson 3.
★	Lesson 5: Showing Information on Graphs	This is a key lesson.
★	Lesson 6: Reading Pie Charts	This is a key lesson.
★	Lesson 7: Reading Pie Charts	This is a key lesson.
⌚	Lesson 8: Reading Pie Charts	This lesson can be completed if time allows. This objective is covered in Lessons 6 and 7.
★	Lesson 9: Reading Line Graphs	This is a key lesson.
★	Lesson 10: Reading Line Graphs	This is a key lesson.
★	Lesson 11: Converting Miles into Kilometres	This is a key lesson.
⌚	Lesson 12: Reading Line Graphs	This lesson can be completed if time allows. This objective is covered in Lessons 9 and 10.

Key	Chapter 15: Negative Numbers	Content Catch Up
★	Lesson 1: Adding and Subtracting Negative Numbers	This is a key lesson.
★	Lesson 2: Using Negative Numbers	This is a key lesson.

Year 6: Combined Lesson Example

In this example, elements from Lesson 3 (Calculating the Mean) and Lesson 4 (Solving Problems Involving the Mean) in Chapter 14 are combined to create one lesson. In Focus and Let's Learn from Lesson 3 are combined with Guided Practice from Lesson 4.

In Focus

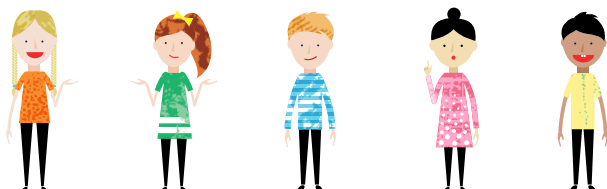
The mean age of a group of five people is 12 years old.
How old is each person in this group?

Mean age = 12 years old



Let's Learn

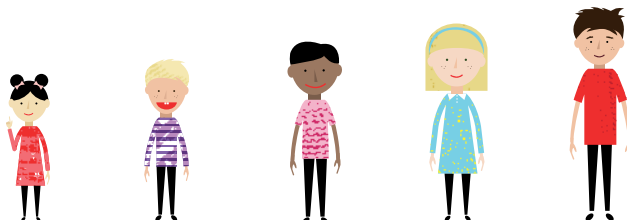
1 Find the mean age.



12 years 12 years 12 years 12 years 12 years

mean = 12 years

2



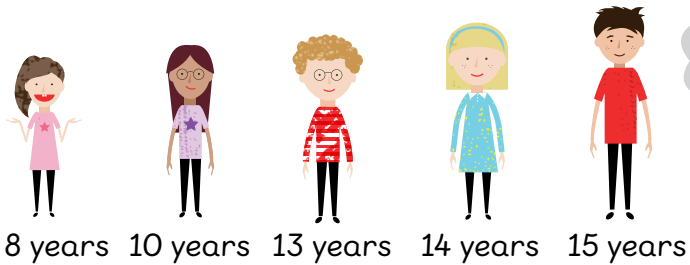
9 years 10 years 12 years 14 years 15 years

mean = $60 \div 5$
= 12 years

$9 + 10 + 12 + 14 + 15 = 60$



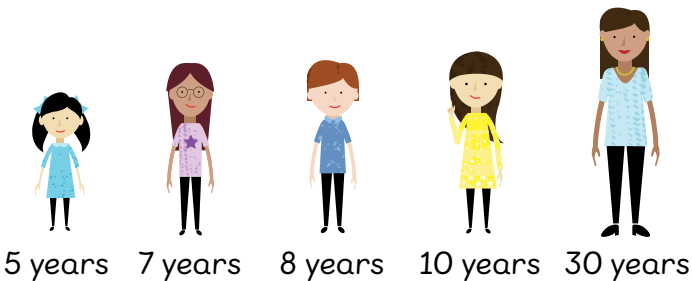
3



$$8 + 10 + 13 + 14 + 15 = 60$$

$$\begin{aligned} \text{mean} &= 60 \div 5 \\ &= 12 \text{ years} \end{aligned}$$

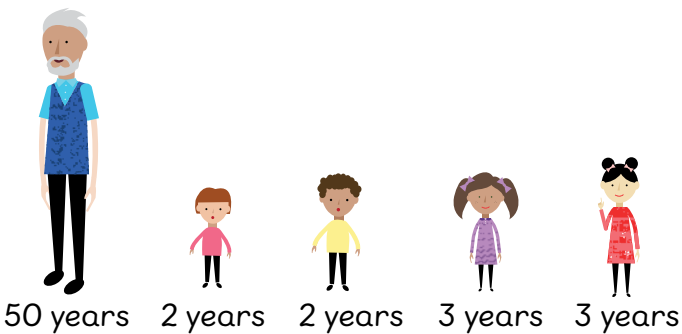
4



$$5 + 7 + 8 + 10 + 30 = 60$$

$$\begin{aligned} \text{mean} &= 60 \div 5 \\ &= 12 \text{ years} \end{aligned}$$

5



$$50 + 2 + 3 + 2 + 3 = 60$$

$$\begin{aligned} \text{mean} &= 60 \div 5 \\ &= 12 \text{ years} \end{aligned}$$



Do you think the mean age is a good indicator of how old the five people are?

Guided Practice

- 1** The mean age of four siblings is 7 years old.
The mean age of the youngest three is 5 years old.
How old is the eldest sibling?

What is the total age of the three younger siblings?

What is the total age of the four siblings?



2

Test 1	70
Test 2	76
Test 3	7
Test 4	8
Test 5	8

's scores for 5 tests are all different and they are arranged from lowest to highest. Three of the unit digits are missing. Find the lowest possible value for 's score in Test 3.

The mean of my test scores is 79 points.

Test scores are in whole numbers.

