Power Maths

White Rose Maths

White Rose Maths Edition

Year 4 Practice Book 4C

Pearson

Series Editor: Tony Staneff

Year 4 Practice Book 4C

White Rose Maths Edition

What did you do in maths in Year 4?

Draw or write what you enjoyed doing most.

This book belongs to _____ .

My class is _____ .

Series editor: Tony Staneff

Lead author: Josh Lury

Consultants (first edition): Professor Liu Jian and Professor Zhang Dan

Author team (first edition): David Board, Tim Handley, Derek Huby, Timothy Weal, Paul Wrangles and White Rose Maths (Emily Fox, Jilly Todd and Rachel Webster)

Pearson

Contents

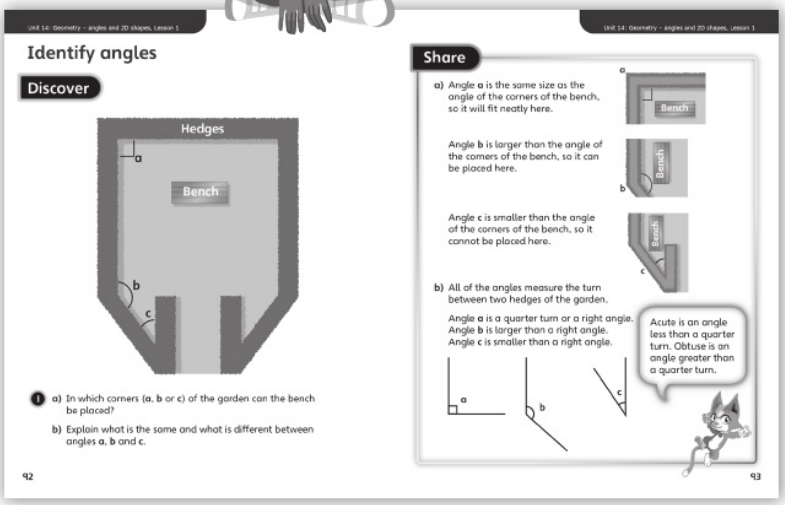
Unit 11 – Decimals (2)	**6**
Make a whole	6
Partition decimals	9
Flexibly partition decimals	12
Compare decimals	15
Order decimals	18
Round to the nearest whole	21
Halves and quarters as decimals	24
End of unit check	27
Unit 12 – Money	**29**
Write money using decimals	29
Convert between pounds and pence	32
Compare amounts of money	35
Estimate with money	38
Calculate with money	41
Solve problems with money	44
End of unit check	47
Unit 13 – Time	**49**
Years, months, weeks and days	49
Hours, minutes and seconds	52
Convert between analogue and digital times	55
Convert to the 24-hour clock	58
Problem solving – convert units of time	61
End of unit check	64
Unit 14 – Geometry – angles and 2D shapes	**66**
Identify angles	66
Compare and order angles	69
Triangles	72
Quadrilaterals	75

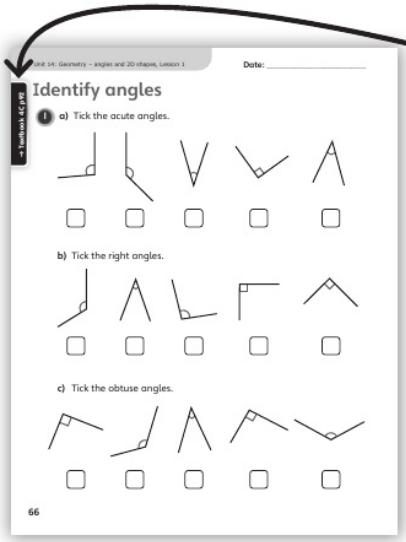
Polygons	78
Reason about polygons	81
Lines of symmetry	84
Complete a symmetric figure	87
End of unit check	90
Unit 15 – Statistics	**93**
Interpret charts	93
Solve problems with charts (1)	96
Solve problems with charts (2)	99
Interpret line graphs (1)	102
Interpret line graphs (2)	105
Draw line graphs	108
End of unit check	111
Unit 16 – Geometry – position and direction	**114**
Describe position	114
Describe position using coordinates	117
Plot coordinates	120
Draw 2D shapes on a grid	123
Translate on a grid	126
Describe translation on a grid	129
End of unit check	132

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.





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

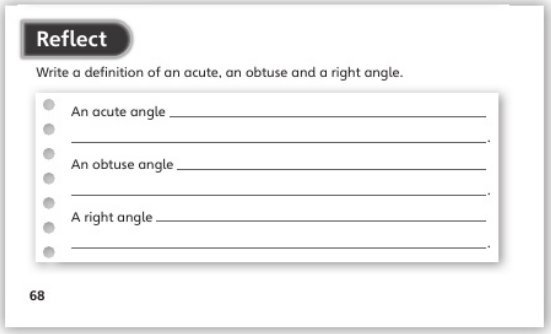
Have a go at questions by yourself using this **Practice Book**. Use what you have learnt.

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.



Reflect

Write a definition of an acute, an obtuse and a right angle.

An acute angle _____

_____.

An obtuse angle _____

_____.

A right angle _____

_____.

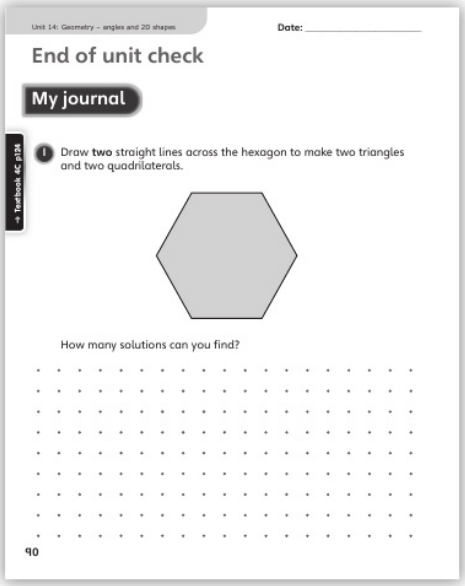
68

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

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.



Unit 14: Geometry – angles and 2D shapes

Date: _____

End of unit check

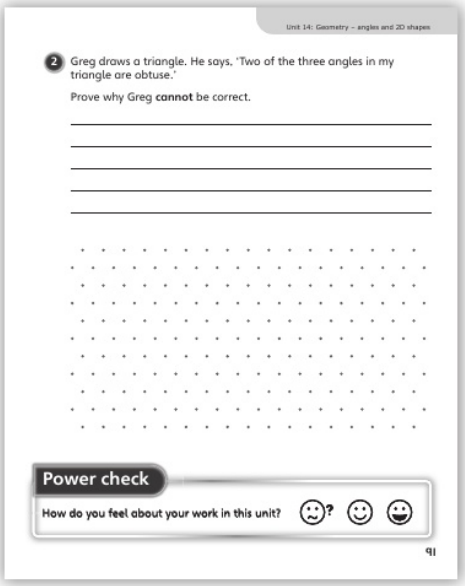
My journal

→ Textbook 4C, p164

1 Draw **two** straight lines across the hexagon to make two triangles and two quadrilaterals.

How many solutions can you find?

90



Unit 14: Geometry – angles and 2D shapes

2 Greg draws a triangle. He says, 'Two of the three angles in my triangle are obtuse.'

Prove why Greg **cannot** be correct.

Power check

How do you feel about your work in this unit? ☹? ☺ 😀

91

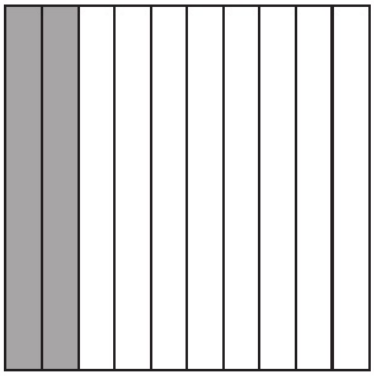
Date: _____

→ Textbook 4C p8

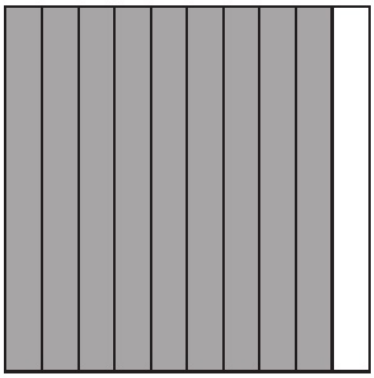
Make a whole

1 Use the grids to complete the additions.

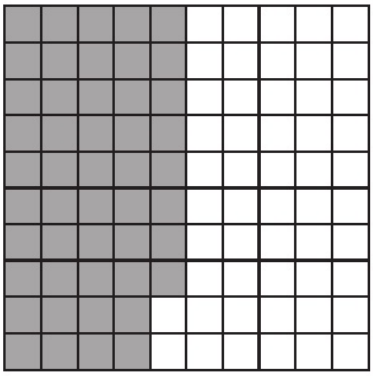
a) $0{\cdot}2 + 0{\cdot}\square = 1$



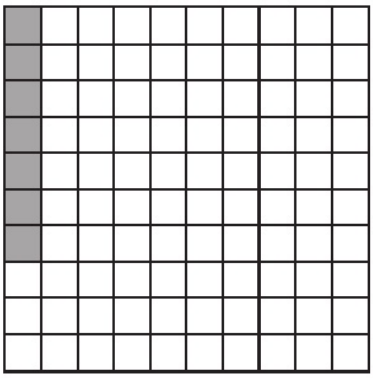
b) $0{\cdot}9 + 0{\cdot}\square = 1$



c) $0{\cdot}48 + 0{\cdot}\square = 1$

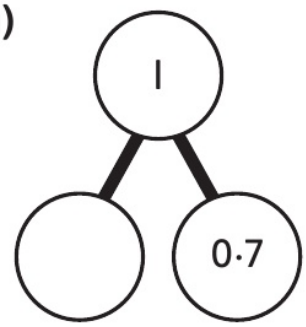


d) $0{\cdot}\square + 0{\cdot}\square = 1$

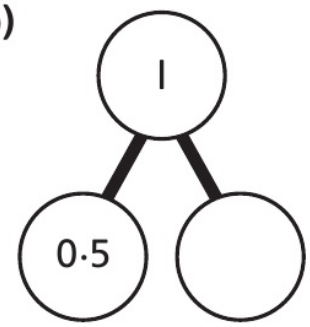


2 Work out the missing numbers. Complete the part-whole models.

a)

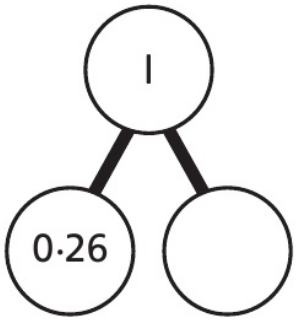


b)

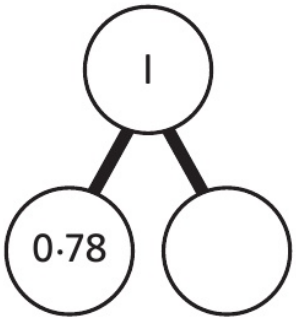


3 Complete the part-whole models.

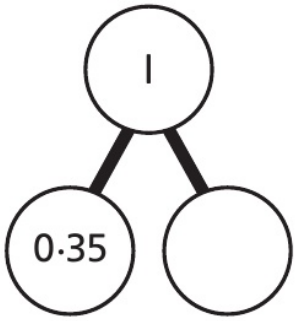
a)



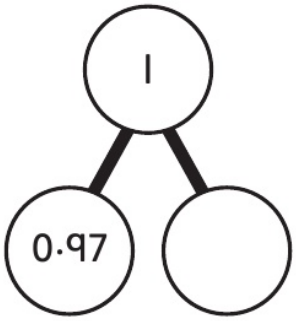
c)



b)



d)



4 Complete the calculations.

a) 0·6 + ☐ = 1

b) 1 = ☐ + 0·84

c) 0·32 + ☐ = 1

d) ☐ + 0·09 = 1

e) 0·33 + ☐ = 1

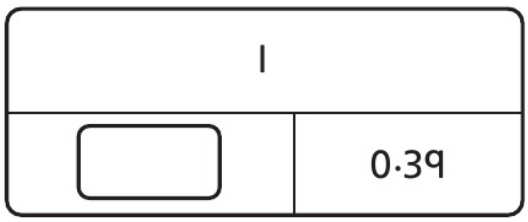
f) 0·89 + ☐ = 1

g) 1 − 0·7 = ☐

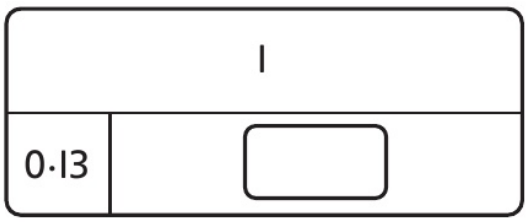
h) 1 − 0·34 = ☐

5 Work out the missing numbers.

a)



b)



6 Complete the calculations.

a) 0·□3 + 0·7□ = 1

b) 0·□5 + 0·2□ = 1

c) 0·□ + 0·□8 = 1

d) 0·3□ + 0·□ = 1

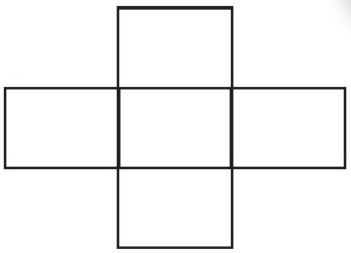
e) 0·3□ + 0·□ = 1

f) 0·3□ + 0·□ = 1

7 Use the number cards to make each row and column add up to 1 whole.

CHALLENGE

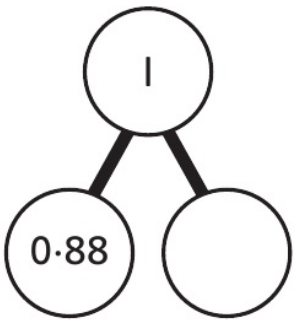
0·3	0·5	0·6	0·1	0·2



Reflect

Max says, '0·22 is the missing value.'

Explain why Max is not correct.



→ Textbook 4C p12

Partition decimals

1 What numbers are shown on the place value grids?

a)

T	O	Tth	Hth
	1 1 1 1 1 1	0·1 0·1 0·1 0·1 0·1 0·1 0·1 0·1	

b)

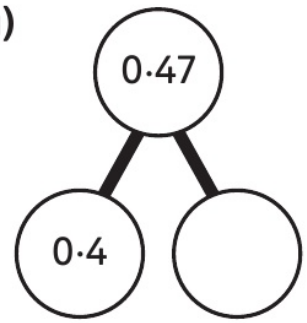
T	O	Tth	Hth
	1 1 1 1 1 1 1	0·1 0·1 0·1	0·01 0·01 0·01 0·01 0·01 0·01 0·01 0·01 0·01

c)

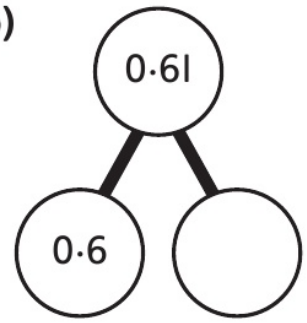
T	O	Tth	Hth
10		0·1 0·1 0·1 0·1 0·1	

2 Complete the part-whole models.

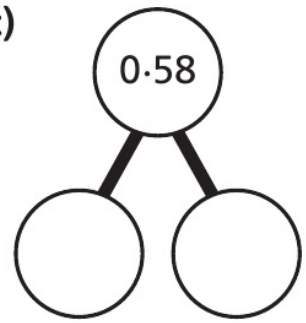
a)



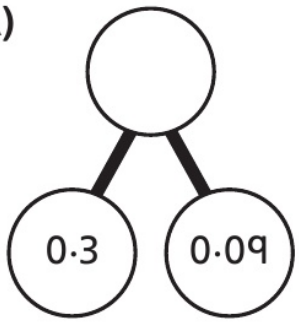
b)



c)



d)

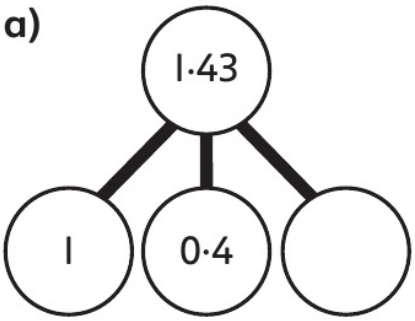


3 Complete the bar model.

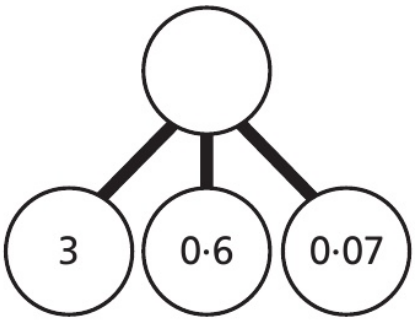
3·49		
3	☐	0·09

4 Complete the part-whole models.

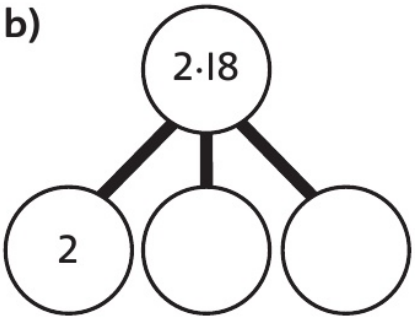
a)



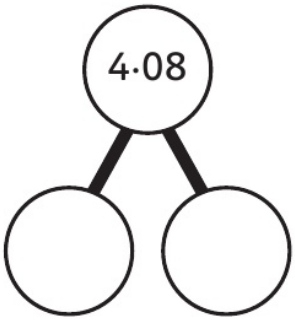
c)



b)



d)



5 Complete the table.

a)	7 ones + 2 tenths + 1 hundredth	7·☐
b)	2 tens + 9 _____ + 3 tenths + 4 _____	☐9·☐4
c)	1 ten + 7 ones + 1 hundredth	☐·☐
d)	5 tenths + 3 hundredths	☐·☐

6 Complete the additions.

a) 0·65 = 0·6 + ☐

b) 0·39 = 0·3 + ☐

c) 0·87 = 0·07 + ☐

d) ☐ = 0·6 + 0·01

e) ☐ = 0·01 + 0·6

f) 2·38 = 2 + 0·3 + ☐

g) 3·15 = 3 + ☐ + 0·05

h) ☐ = 1 + 0·9 + 0·02

7 Mo, Emma and Danny are playing a number game. Each child gives one clue. Draw lines to show which number matches each child.

CHALLENGE

8·24 | 4·24 | 4·27

My number has 2 tenths.

My number has the same quantity of ones and hundredths.

My number has 4 hundredths.

Mo

Emma

Danny

Reflect

Write down a decimal and ask a partner to partition it.

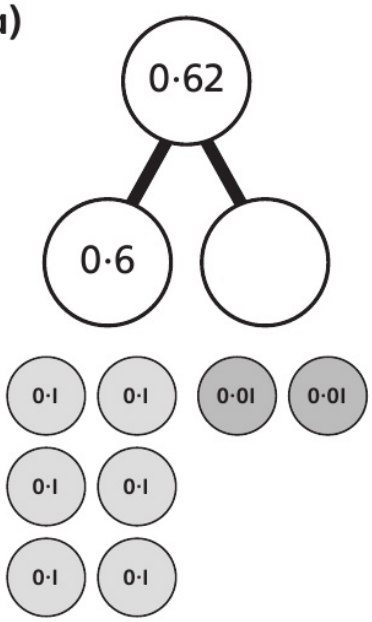
Date: _____

Flexibly partition decimals

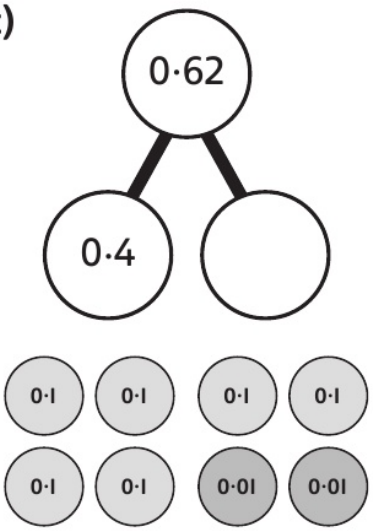
→ Textbook 4C p16

1 Complete the part-whole models.

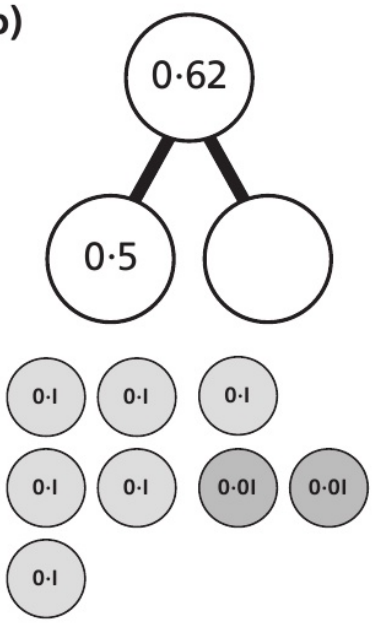
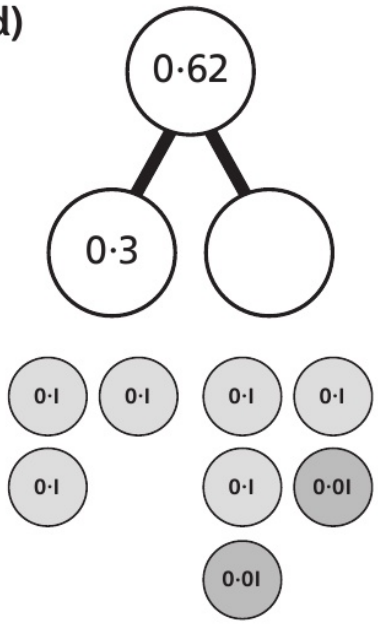
a)



c)



b)



d)