

White Rose
MATHS

White Rose Maths Edition

Year 3
Practice Book
3C



Pearson

Series Editor: Tony Staneff



Year 3 Practice Book 3C



White Rose Maths Edition



What do you look like?
Draw yourself doing
your favourite activity.

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): Tony Staneff, Josh Lury, Tim Handley,
Belle Cottingham and Paul Wrangles



Contents

Unit II – Fractions (2)

Add fractions	6
Subtract fractions	6
Partition the whole	9
Problem solving – add and subtract fractions	12
Unit fractions of a set of objects	15
Non-unit fractions of a set of objects	18
Reason with fractions of an amount	21
Problem solving – fractions of measures	24
End of unit check	27

Unit I2 – Money

Pounds and pence	30
Convert pounds and pence	32
Add money	32
Subtract money	35
Find change	38
End of unit check	41

Unit I3 – Time

Roman numerals to I2	44
Tell the time to 5 minutes	49
Tell the time to the minute	52
Read time on a digital clock	55
Use am and pm	58
Years, months and days	61
Days and hours	64
Hours and minutes – start and end times	67
Hours and minutes – durations	70
Hours and minutes – compare durations	73
Minutes and seconds	76
Solve problems with time	79
End of unit check	82

This looks like a good challenge!



Unit 14 – Angles and properties of shapes	88
Turns and angles	88
Right angles in shapes	91
Compare angles	94
Measure and draw accurately	97
Horizontal and vertical	100
Parallel and perpendicular	103
Recognise, draw and describe 2D shapes	106
Recognise and describe 3D shapes	109
Make 3D shapes	112
End of unit check	115
Unit 15 – Statistics	118
Interpret pictograms (1)	118
Interpret pictograms (2)	121
Draw pictograms	124
Interpret bar charts (1)	127
Interpret bar charts (2)	130
Collect and represent data in a bar chart	133
Simple two-way tables	136
End of unit check	139
My power points	142

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.

Discover

a) How much money does Lee have?

b) Sofia has these coins in her purse:

She gives Lee £2 and 28p.
Which coins did Sofia give Lee?

Share

a) Sort the notes and coins into pounds (£) and pence (p).

I counted the pounds first and then the pence. I used a number line to find the total amount. I started with the highest value.

Lee has 12 pounds.

Lee has 88 pence.

Lee has £12 and 88p.

b) Sofia gave Lee a £2 coin and 20p, 5p and 1p coins.

Key 1p 2p 5p 10p 20p 50p £1 £2

Challenge

a) How much money is there?

There is pounds and pence.

b) [notes and coins].
There is £ and p.

c) [coins].
There is £ and p.

Key 1p 2p 5p 10p 20p 50p £1 £2

This shows you which **Textbook** page to use.

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

Reena says that she has £3 and 20p. What mistake could Reena have made?



• _____

• _____

• _____

34

Key 1p 2p 5p 10p 20p 50p £1 £2

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: Money

End of unit check

My journal

Make up your own money word problem for these pictures.

Sofia

Power check

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

47

Unit 12: Money

Power puzzle

400 g butter	£1 and 75p
1 egg	20p
100 g sugar	35p
100 g flour	26p
100 g cocoa	£1 and 80p
1 pack of sprinkles	87p

Aki is buying ingredients to bake a cake.

He uses the following recipe to make the cake:

400 g butter
2 eggs
400 g sugar
400 g flour
50 g cocoa
One pack of sprinkles

Aki buys the exact amount of each ingredient he needs.

How much change from £10 does Aki get?

What strategy did you use to add up all the amounts? Is there a different way you could have found the answer?

Aki gets £ and p change.

48

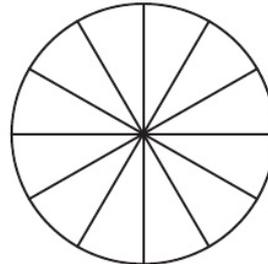
Add fractions

1 Add these fractions. Shade in the shapes to help you.

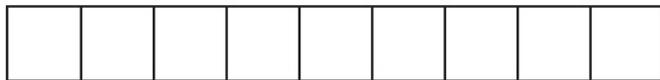
$$\text{a) } \frac{4}{7} + \frac{2}{7} = \frac{\boxed{}}{\boxed{}}$$



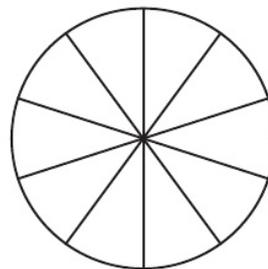
$$\text{c) } \frac{7}{12} + \frac{1}{12} = \frac{\boxed{}}{\boxed{}}$$



$$\text{b) } \frac{2}{9} + \frac{3}{9} = \frac{\boxed{}}{\boxed{}}$$



$$\text{d) } \frac{5}{10} + \frac{5}{10} = \frac{\boxed{}}{\boxed{}}$$



2 Add these fractions.

$$\text{a) } \frac{2}{5} + \frac{1}{5} = \frac{\boxed{}}{\boxed{}}$$

$$\text{b) } \frac{1}{4} + \frac{2}{4} = \frac{\boxed{}}{\boxed{}}$$

3 Add these fractions.

$$\text{a) } \frac{1}{3} + \frac{1}{3} = \frac{\boxed{}}{\boxed{}}$$

$$\text{d) } \frac{\boxed{}}{\boxed{}} = \frac{2}{6} + \frac{2}{6}$$

$$\text{g) } \frac{\boxed{}}{\boxed{}} = \frac{3}{10} + \frac{5}{10}$$

$$\text{b) } \frac{2}{4} + \frac{2}{4} = \frac{\boxed{}}{\boxed{}}$$

$$\text{e) } \frac{1}{8} + \frac{3}{8} = \frac{\boxed{}}{\boxed{}}$$

$$\text{h) } \frac{3}{12} + \frac{9}{12} = \frac{\boxed{}}{\boxed{}}$$

$$\text{c) } \frac{3}{9} + \frac{2}{9} = \frac{\boxed{}}{\boxed{}}$$

$$\text{f) } \frac{3}{7} + \frac{1}{7} = \frac{\boxed{}}{\boxed{}}$$

$$\text{i) } \frac{1}{7} + \frac{1}{7} + \frac{1}{7} = \frac{\boxed{}}{\boxed{}}$$

4 Find the missing numerators.

$$\text{a) } \frac{7}{10} + \frac{\boxed{}}{10} = \frac{9}{10}$$

$$\text{c) } \frac{\boxed{}}{8} + \frac{1}{8} = \frac{6}{8}$$

$$\text{b) } \frac{2}{5} + \frac{\boxed{}}{5} = \frac{3}{5}$$

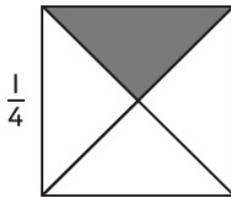
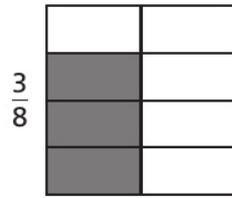
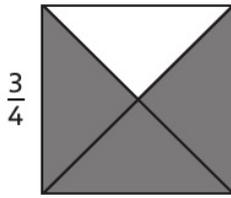
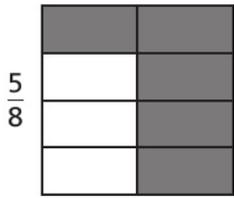
$$\text{d) } \frac{3}{7} + \frac{\boxed{}}{7} = 1$$

5 Find four possible additions.

$$\frac{\boxed{}}{6} + \frac{\boxed{}}{6} = \frac{5}{6}$$



6 a) Which fractions make 1 when added together?
Draw lines to join the fractions.



b) Complete the calculations.

$$\frac{1}{5} + \frac{\boxed{}}{5} = 1$$

$$\frac{3}{6} + \frac{3}{\boxed{}} = 1$$

$$\frac{\boxed{}}{10} + \frac{7}{\boxed{}} = 1$$

Reflect

Richard thinks that $\frac{1}{5} + \frac{1}{5} = \frac{2}{10}$ because $1 + 1 = 2$ and $5 + 5 = 10$.

Jamilla thinks that $\frac{1}{5} + \frac{1}{5} = \frac{2}{5}$.

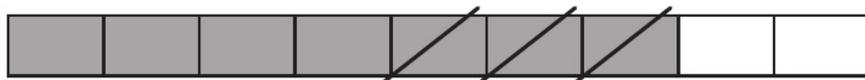
Who is correct? Explain how to add fractions with the same denominator.

- _____
- _____
- _____
- _____

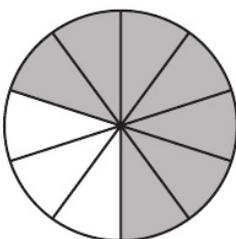
Subtract fractions

I Subtract the fractions. Cross out parts of the diagrams to help you.

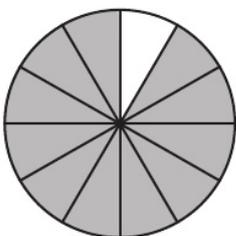
a) $\frac{7}{9} - \frac{3}{9} = \frac{\boxed{}}{\boxed{}}$



b) $\frac{7}{10} - \frac{5}{10} = \frac{\boxed{}}{\boxed{}}$



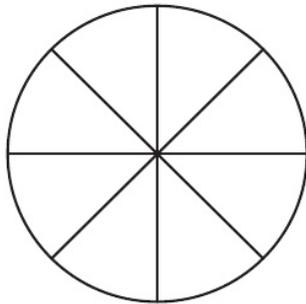
c) $\frac{11}{12} - \frac{5}{12} = \frac{\boxed{}}{\boxed{}}$



d) $1 - \frac{1}{8} = \frac{\boxed{}}{\boxed{}}$



- 2** Max cuts a cake into 8 slices. He eats 5 slices.
What fraction of the cake does he have left?



Max has $\frac{\boxed{}}{\boxed{}}$ of the cake left.

- 3** Work out the missing fractions.

a) $\frac{5}{9} - \frac{2}{9} = \frac{\boxed{}}{\boxed{}}$

d) $\frac{\boxed{}}{\boxed{}} = \frac{3}{10} - \frac{1}{10}$

g) $\frac{5}{6} - \frac{\boxed{}}{\boxed{}} = \frac{1}{6}$

b) $\frac{3}{8} - \frac{2}{8} = \frac{\boxed{}}{\boxed{}}$

e) $\frac{10}{11} - \frac{\boxed{}}{11} = \frac{3}{11}$

h) $1 - \frac{\boxed{}}{\boxed{}} = \frac{1}{9}$

c) $1 - \frac{3}{4} = \frac{\boxed{}}{\boxed{}}$

f) $\frac{7}{8} - \frac{2}{\boxed{}} = \frac{5}{8}$

i) $\frac{8}{9} = 1 - \frac{\boxed{}}{\boxed{}}$

- 4 Work out three possible subtractions that have an answer of $\frac{3}{8}$.

$$\frac{\boxed{}}{8} - \frac{\boxed{}}{8} = \frac{3}{8}$$

$$\frac{\boxed{}}{8} - \frac{\boxed{}}{8} = \frac{3}{8}$$

$$\frac{\boxed{}}{8} - \frac{\boxed{}}{8} = \frac{3}{8}$$

- 5 Complete the calculations.

a) $\frac{2}{5} + \frac{2}{5} - \frac{3}{5} = \frac{\boxed{}}{\boxed{}}$

c) $\frac{7}{12} - \frac{1}{12} + \frac{\boxed{}}{\boxed{}} = 1$

b) $\frac{5}{q} + \frac{\boxed{}}{q} - \frac{2}{q} = \frac{4}{q}$

d) $\frac{q}{10} - \frac{\boxed{}}{\boxed{}} + \frac{3}{10} = \frac{7}{10}$



CHALLENGE

Reflect

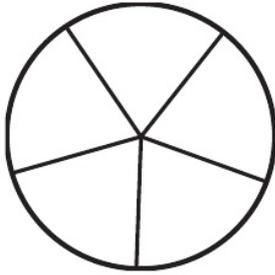
To find the difference between $\frac{7}{q}$ and $\frac{2}{q}$, Reena calculates $\frac{7}{q} - \frac{2}{q}$.

Explain how Reena could find the answer.

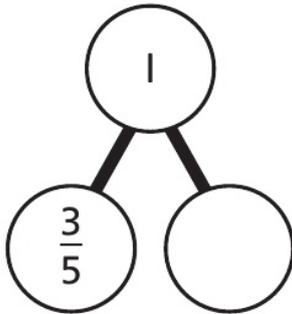
- _____
- _____
- _____
- _____

Partition the whole

- 1 The circle is split into 5 equal parts.



- Shade 3 parts.
- Shade 2 parts in a different colour.
- Complete the part-whole model to show the partition.



- 2 The fraction strip shows eighths.



Complete the part-whole model.

