Year 4 – Summer Block 1 – Decimals – Make a Whole

About This Resource:

This PowerPoint has been designed to support your teaching of this small step. It includes a starter activity and an example of each question from the Varied Fluency and Reasoning and Problem Solving resources also provided in this pack. You can choose to work through all examples provided or a selection of them depending on the needs of your class.

National Curriculum Objectives:

Mathematics Year 4: (4F6b) Recognise and write decimal equivalents of any number of tenths or hundredths
Mathematics Year 4: (4F10b)
Solve simple measure and money problems involving fractions and decimals to two decimal places

More Year 4 Decimals resources.

Did you like this resource? Don't forget to review it on our website.

Step 1: Make a Whole

Introduction

Using any combination of these numbers:

1	2	4	7	20	75

Add, subtract, multiply or divide to make this number:

100

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Various possible answers, for example:

1 + 4 = 5, 5 x 20 = 100

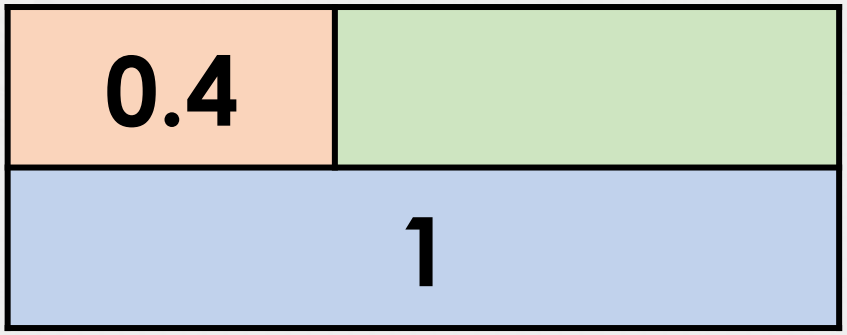
1 + 2 + 4 + 20 + 75 = 100

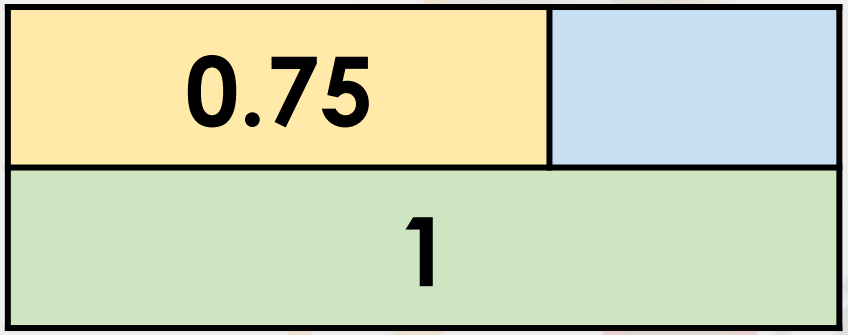
7 – 2 = 5, 5 + 20 = 25, 25 + 75 = 100

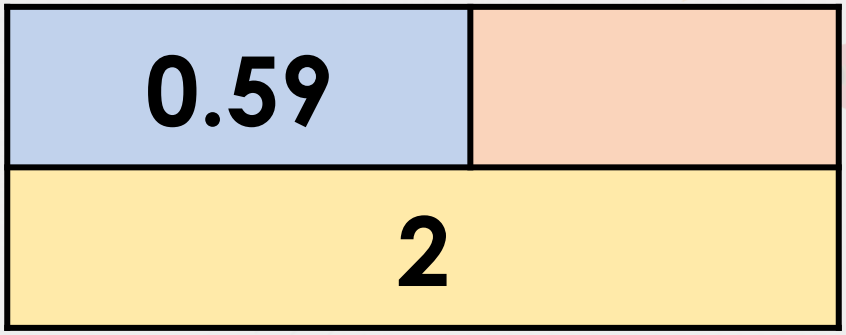
75 + 1 + 4 + 20 = 100

Varied Fluency 1

Find the missing number in each bar model.







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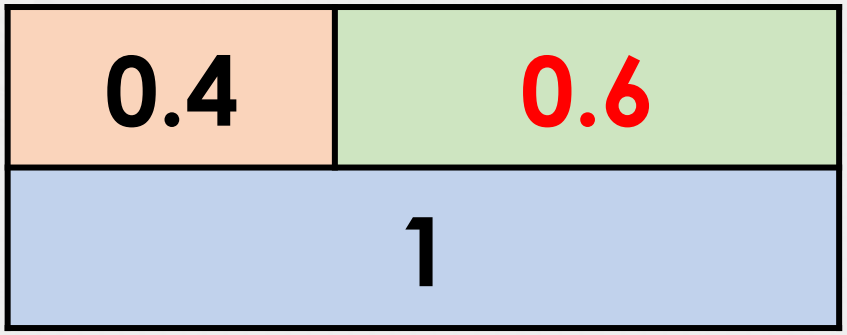
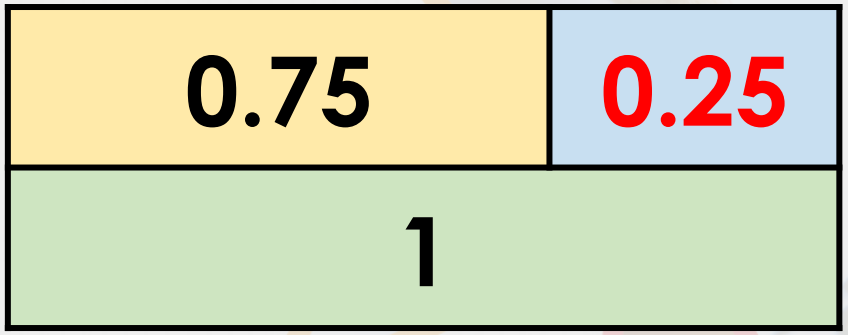
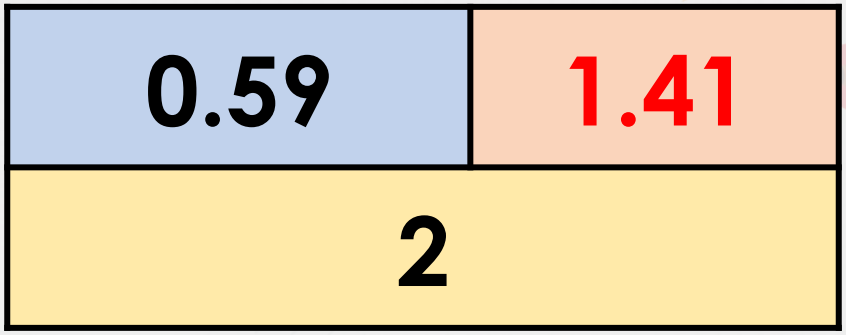
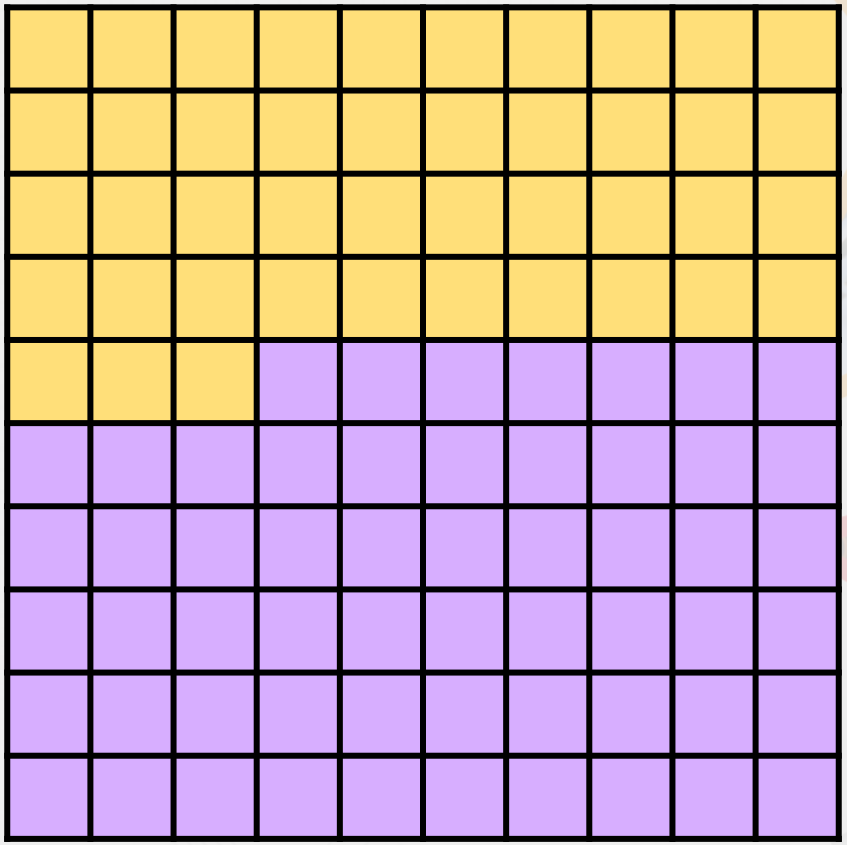






Varied Fluency 2

Write statements to describe the hundred square.



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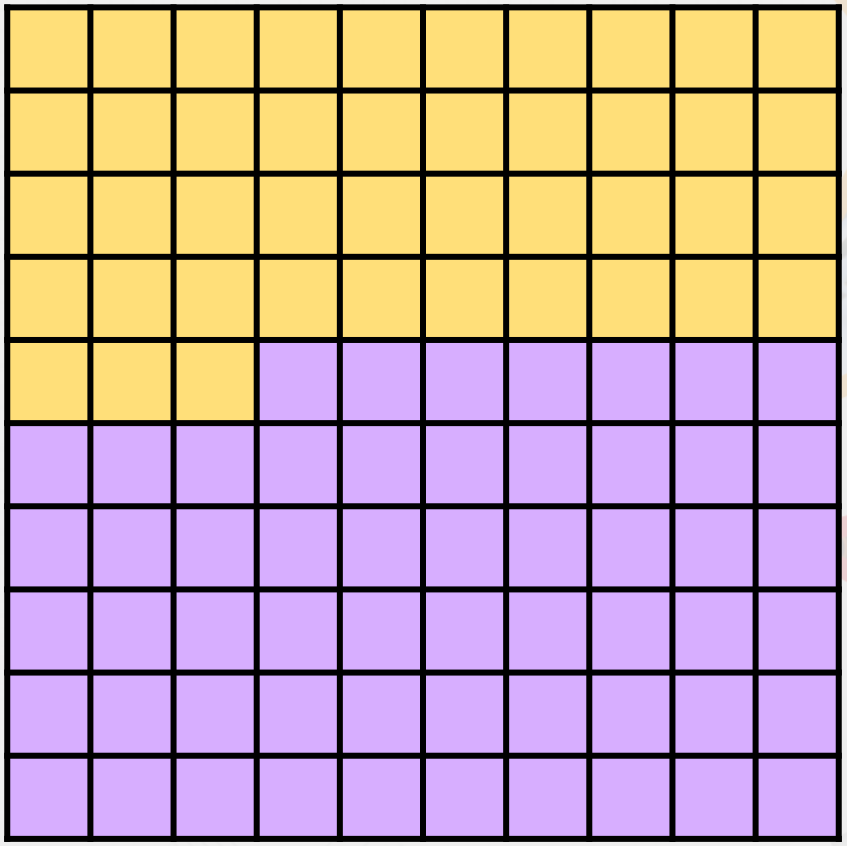

0.43 + 0.57 = 1

0.57 + 0.43 = 1

1 – 0.43 = 0.57

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Varied Fluency 3

You have 2 tenths and 3 hundredths.

Draw a bar model to find how many more hundredths you need to make one whole.

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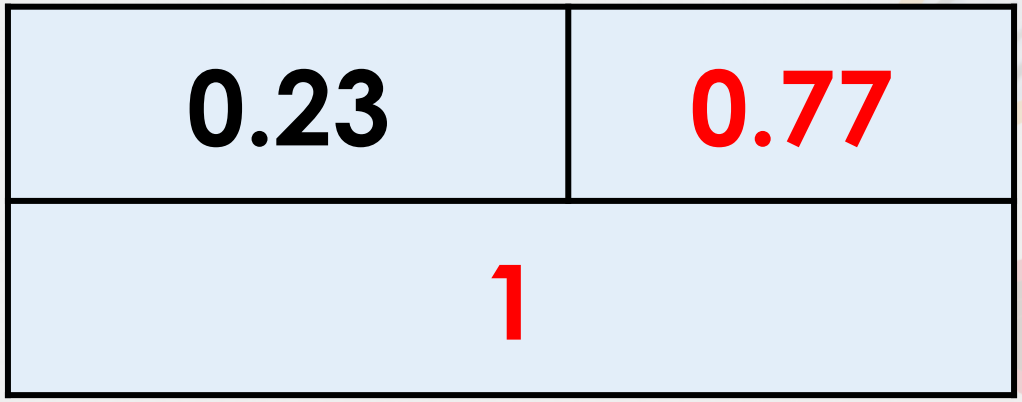
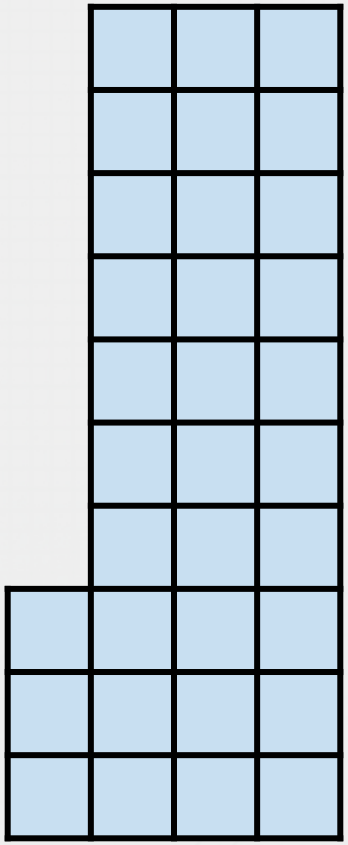


You need 77 more hundredths to make one whole.

Varied Fluency 4

Each cube is worth one hundredth.

How many more cubes do you need to make one whole?

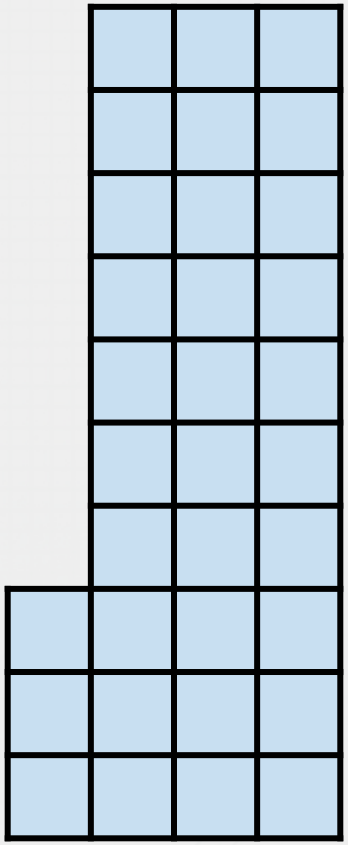


Varied Fluency 4

Each cube is worth one hundredth.

How many more cubes do you need to make one whole?

You need 67 more cubes.



Varied Fluency 5

True or false?

2 tenths and 5 hundredths and 8 tenths and 5 hundredths make one whole.

Varied Fluency 5

True or false?

2 tenths and 5 hundredths and 8 tenths and 5 hundredths make one whole.

False, it makes one whole and one tenth.

Problem Solving 1

Complete the calculation below.

How many different solutions can you find?

$$0.3\square + 0.6\square = 1$$

Complete the calculation below.

How many different solutions can you find?

$$0.3\square + 0.6\square = 1$$

0.31 + 0.69 = 1, 0.32 + 0.68 = 1, 0.33 + 0.67 = 1
0.34 + 0.66 = 1, 0.35 + 0.65 = 1, 0.36 + 0.64 = 1
0.37 + 0.63 = 1, 0.38 + 0.62 = 1, 0.39 + 0.61 = 1

Reasoning 1

Toby says:

If I have 0.24, I need to add on 0.86 to make a whole.

Is he correct? Explain why or why not.

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Is he correct? Explain why or why not.

Toby is not correct because…

Reasoning 1

Toby says:

If I have 0.24, I need to add on 0.86 to make a whole.

Is he correct? Explain why or why not.

Toby is not correct because 0.24 + 0.86 = 1 whole and 1 tenth. He needs to add 0.76 instead.

Problem Solving 2

Each flag on the bunting is 0.36m wide at the top.

Will two flags fit on a strip that is 1m long?

How much space will be left over?

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Each flag on the bunting is 0.36m wide at the top.

Will two flags fit on a strip that is 1m long?

How much space will be left over?

Two flags are 0.72m wide so they will fit on the strip with 0.28m of space left over.