1)

	3	. 7	5
–	2	. 5	3
	1	**. 2**	**2**

2) a)

	$^{6}\not{7}$	. $^{1}3$	
–	4	. 6	
	2	**. 7**	

b)

	$^{2}\not{3}$	. $^{11}\not{2}$	$^{1}1$
–	1	. 4	5
	1	**. 7**	**6**

3) a) 1.6

b) 3.87

c) 15.14

d) 4.06

4) £8.97

1) a) Harjot has not lined the numbers correctly. The decimal points need to be underneath each other. He needs to move the digits of the number he is subtracting one place to the right.

b)

	$^{1}\not{2}$	$^{1}1$	. $^{3}\not{4}$	$^{1}5$
–		5	. 3	6
	1	**6**	**. 0**	**9**

2) £6.25 is the amount Jagdish collected.

3) a) No. As the number of hundredths is smaller than the number of hundredths being subtracted, Thalia needs to exchange one tenth into ten hundredths. Therefore, there would be 11 hundredths subtract 7 hundredths leaving you with 4 hundredths.

b) 8.51 – 3.67 = 4.84

1) **Multiple answers possible. An example is below:**

12.54 – 8.44	<	**15.32 – 9.77 = 5.55**
26.04 – 3.51	>	**15.66 – 5.42 = 10.24**
7.8 – 5.2	=	**9.5 – 6.9 = 2.6**

2) **Multiple answers possible. The number subtracted should be between 5.55 and 9.83 (inclusive) and contain 2 decimal places.**

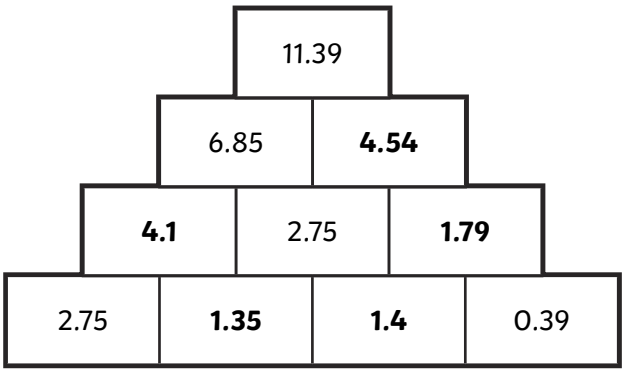
Some possible answers include:

12.34 – 5.55 = 6.79

12.34 – 9.15 = 3.19

12.34 – 6.67 = 5.67

3)



1) Use the place value chart to help you complete the calculation.

3.75 – 2.53 =

Ones	tenths	hundredths
1 1 1	$\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$	$\frac{1}{100}$ $\frac{1}{100}$ $\frac{1}{100}$ $\frac{1}{100}$ $\frac{1}{100}$

	3	. 7	5
–	2	. 5	3
		.	

2) For the following questions, use a place value chart alongside the column method to help you calculate the answer.

a)

	7	. 3	
–	4	. 6	
		.	

b)

	3	. 2	1
–	1	. 4	5
		.	

3) Calculate using the column method.

a) 2.9 – 1.3 =	**b)** 6.28 – 2.41 =	**c)** 17.52 – 2.38 =	**d)** 6.33 – 2.27 =

4) Theo has £12.65 pocket money.
He spends £3.68 on a game.
How much money does he have left?
Show how you calculated the answer.

money left: _____

1) Harjot is working out the difference between 21.45 and 5.36 using a column method to calculate the answer.
This is how he set it out:

	2	1 .	4	5
–	5	. 3	6	

a) Explain the mistake Harjot has made.

b) Now, calculate the answer.

2) Christopher and Jagdish have been collecting money for charity. Christopher collected £2.30 more than Jagdish. They collected £14.80 in total. How much money did Jagdish collect? Show how you worked out the answer.

Christopher ☐

Jagdish ☐

} £14.80

3) Thalia is completing the following calculation: 8.51 – 3.67 =

There is 1 hundredth in 8.51 and if I subtract 7 hundredths from this, I will have 6 hundredths left.

a) Do you agree with Thalia? Explain your answer.

b) Complete the calculation.

1) Write a subtraction calculation, with answers, which would make each statement below true.

The numbers in each subtraction calculation need to have the same number of decimal places.

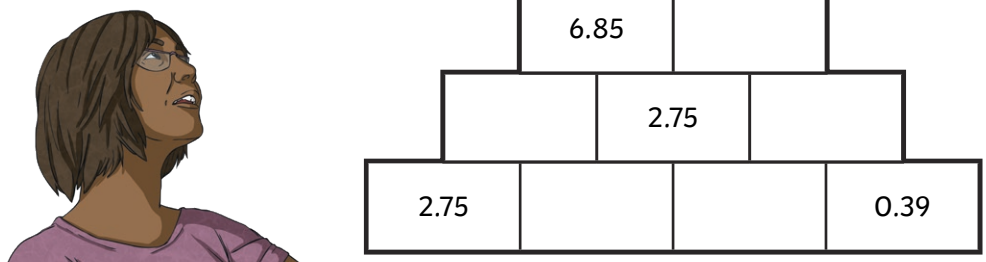
12.54 – 8.44	<	
26.04 – 3.51	>	
7.8 – 5.2	=	

2) Jen started with 12.34 and subtracted a number with 2 decimal places. A number greater than 2.5 and less than 6.8 was her answer.

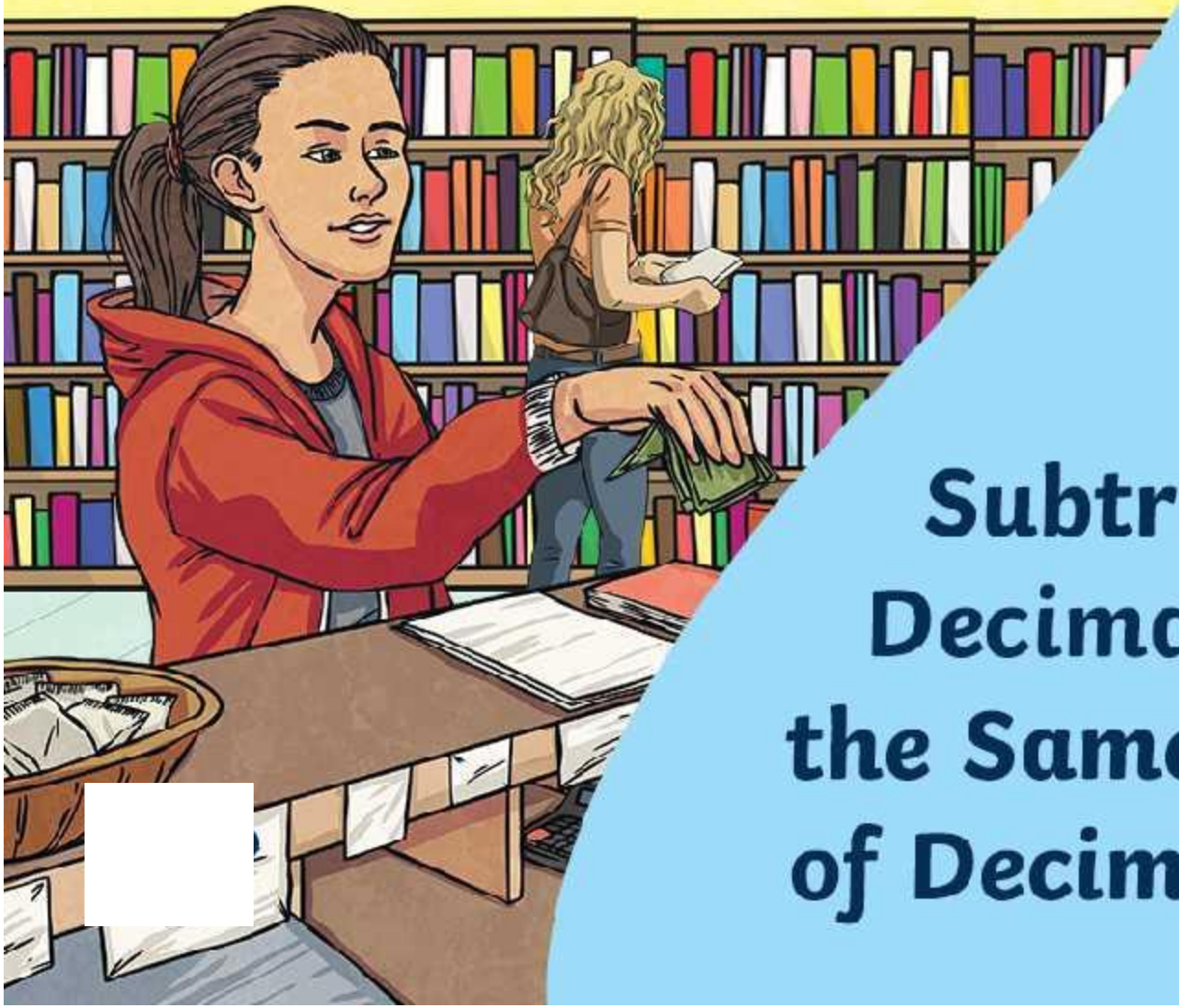
Think of three calculations Jen could have done. Include answers.

3) In the number pyramid, each number is calculated by adding the two numbers directly beneath it from the row below.

Complete the pyramid.



Diving into Mastery



Subtracting Decimals with the Same Number of Decimal Places

Diving into Mastery Guidance for Educators

Each activity sheet is split into three sections, diving, deeper and deepest, which are represented by the following icons:

Diving

Deeper

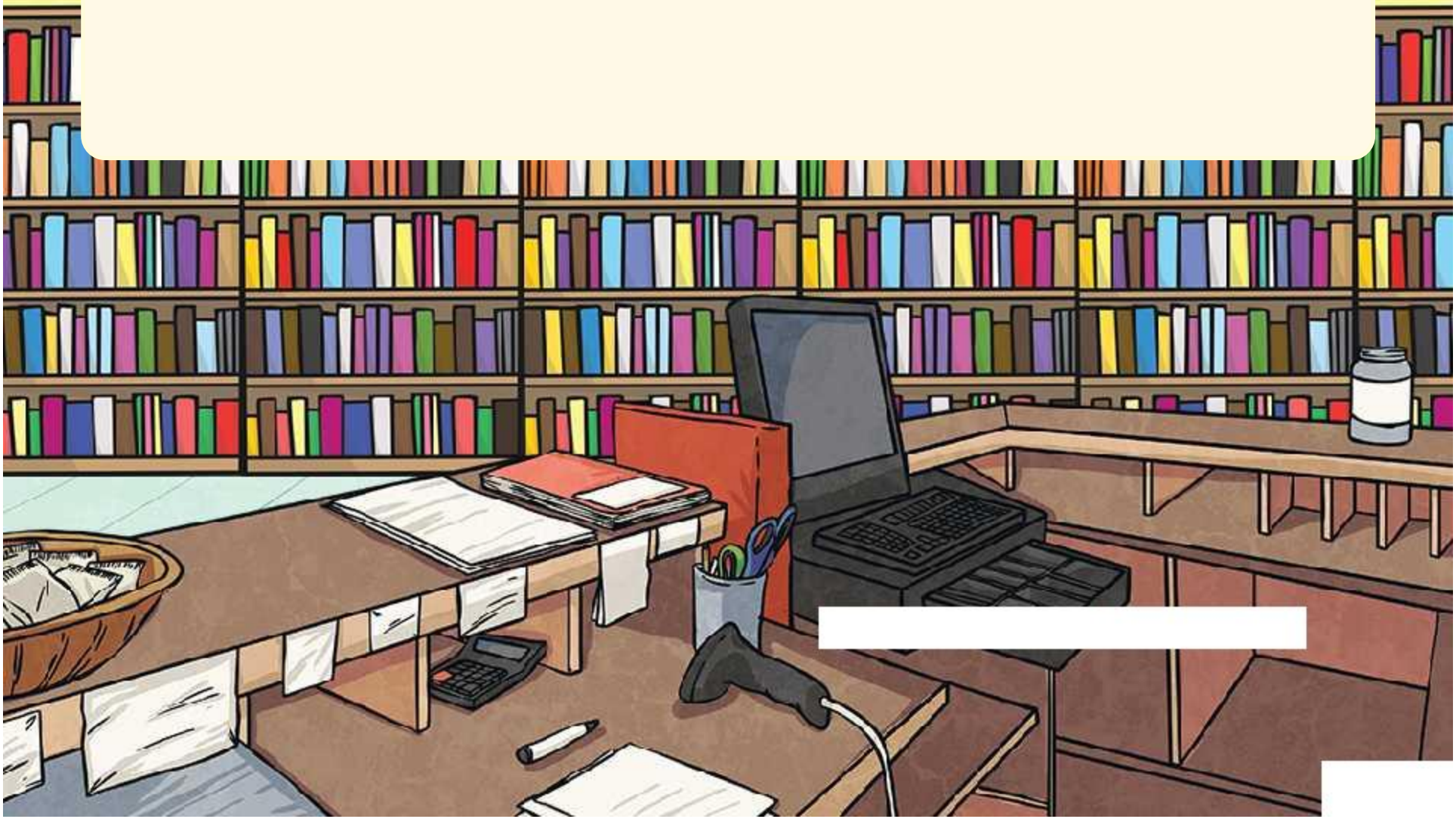
Deepest

These carefully designed activities take your children through a learning journey, initially ensuring they are fluent with the key concept being taught; then applying this to a range of reasoning and problem-solving activities.

These sheets might not necessarily be used in a linear way. Some children might begin at the 'Deeper' section and in fact, others may 'dive straight in' to the 'Deepest' section if they have already mastered the skill and are applying this to show their depth of understanding.

Aim

- Solve problems involving number up to three decimal places.



Subtracting Decimals with the Same Number of Decimal Places | Diving

Use the place value chart to solve the calculation.

2.48 – 1.32 = 1.16

Ones	tenths	hundredths
1 ~~1~~	$\frac{1}{10}$ ~~$\frac{1}{10}$~~ ~~$\frac{1}{10}$~~ ~~$\frac{1}{10}$~~	$\frac{1}{100}$ $\frac{1}{100}$ $\frac{1}{100}$ $\frac{1}{100}$ $\frac{1}{100}$ $\frac{1}{100}$ ~~$\frac{1}{100}$~~ ~~$\frac{1}{100}$~~

There are 2 hundredths to subtract.

There are 3 tenths to subtract.

There is 1 one to subtract.

We are left with 1 one, 1 tenth and 6 hundredths.
2.48 – 1.32 = 1.16

	2	. 4	8
–	1	. 3	2
	1	. 1	6

Subtracting Decimals with the Same Number of Decimal Places | Diving

Use the place value chart to solve the calculation.

4.13 – 2.71 = 1.42

Ones	tenths	hundredths
1 ~~1~~ ~~1~~ 1	$\frac{1}{10}$ $\frac{1}{10}$ ~~$\frac{1}{10}$~~ ~~$\frac{1}{10}$~~ ~~$\frac{1}{10}$~~ $\frac{1}{10}$ ~~$\frac{1}{10}$~~ ~~$\frac{1}{10}$~~ ~~$\frac{1}{10}$~~ ~~$\frac{1}{10}$~~	$\frac{1}{100}$ $\frac{1}{100}$ ~~$\frac{1}{100}$~~

There is 1 hundredth to subtract.

There are 7 tenths to subtract. We need to exchange 1 one into 10 tenths.

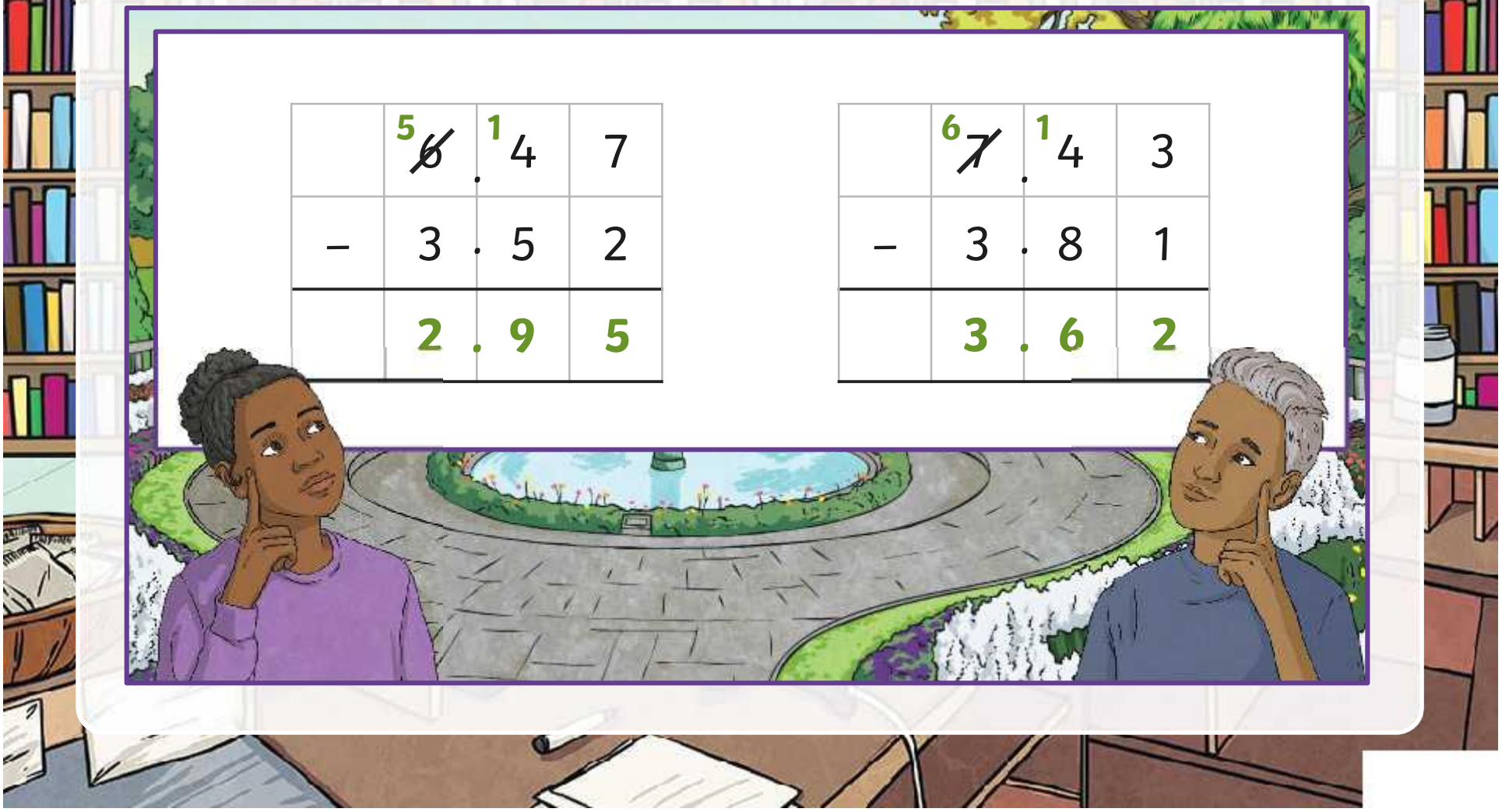
There are 2 ones to subtract.

We are left with 1 one, 4 tenths and 2 hundredths.
4.13 – 2.71 = 1.42

	~~$^{3}4$~~	. $^{1}1$	3
–	2	. 7	1
	1	. 4	2

Subtracting Decimals with the Same Number of Decimal Places | Diving

For the following questions, use a place value chart alongside the column method to help you calculate the answer.



	$^{5}\not{6}$	$^{1}4$	7
–	3	5	2
	2	**9**	**5**

	$^{6}\not{7}$	$^{1}4$	3
–	3	8	1
	3	**6**	**2**

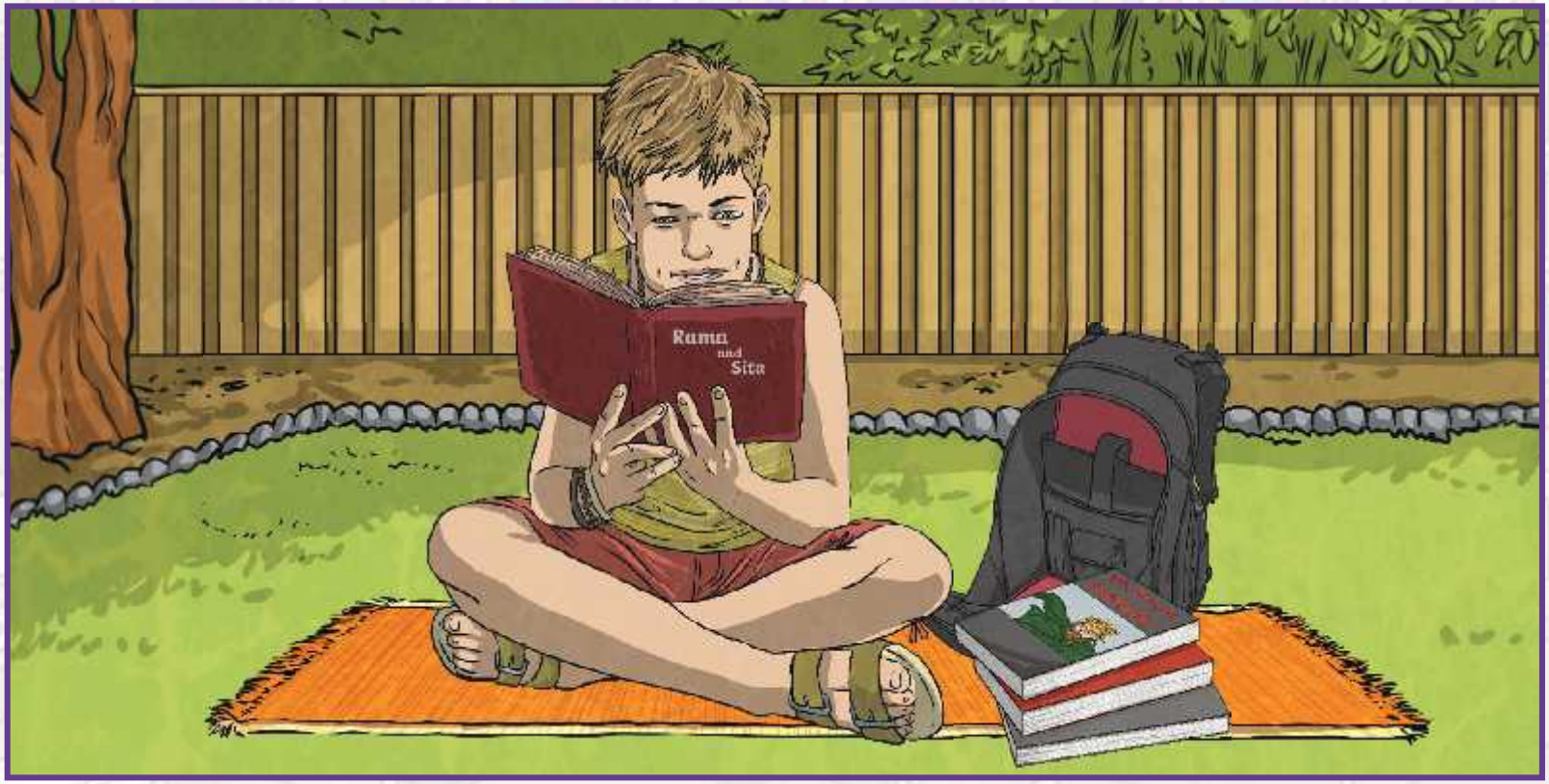
Subtracting Decimals with the Same Number of Decimal Places

Diving

Charlie takes £10.75 shopping. He spend £2.66 on a book.

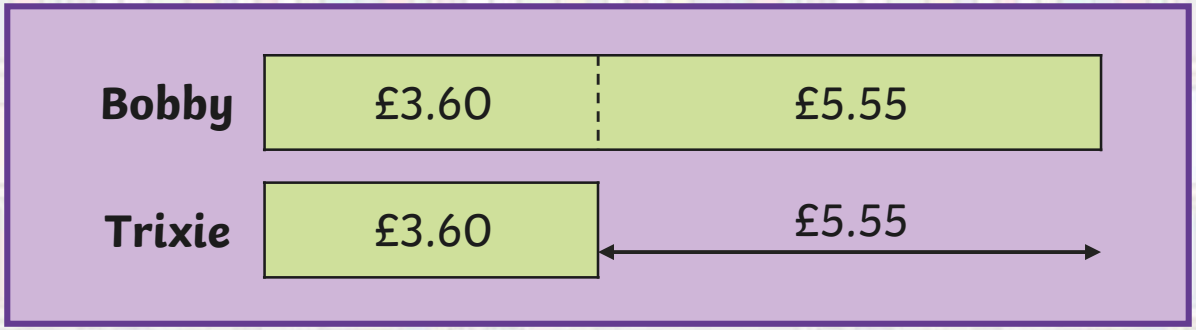
How much money does he have left?

£8.09



Subtracting Decimals with the Same Number of Decimal Places | Deeper

Bobby and his sister Trixie have £12.75 in total. Bobby has £5.55 more than his sister. How much money do they each have?



£3.60 + £5.55 = £9.15

If we take £5.55 away answer, we can find th £12.75 - £5.55 = £7.20	Let's check this: Bobby = £9.15 Trixie = £3.60	money and half the
Bobby would have this	£9.15 + £3.60 = £12.75	

Subtracting Decimals with the Same Number of Decimal Places | Deepest

Timmy starts with 14.12 and subtracts a number with 2 decimal places.
A number greater than 3.6 and less than 7.2 was his answer.

Which of these numbers could be the number he subtracted?

7.23 ✓	3.75	8.11 ✓

Think of one other number that Timmy could have subtracted.

Timmy could have subtracted any number between 6.93 and 10.51 inclusively.

Subtracting Decimals with the Same Number of Decimal Places | Deepest

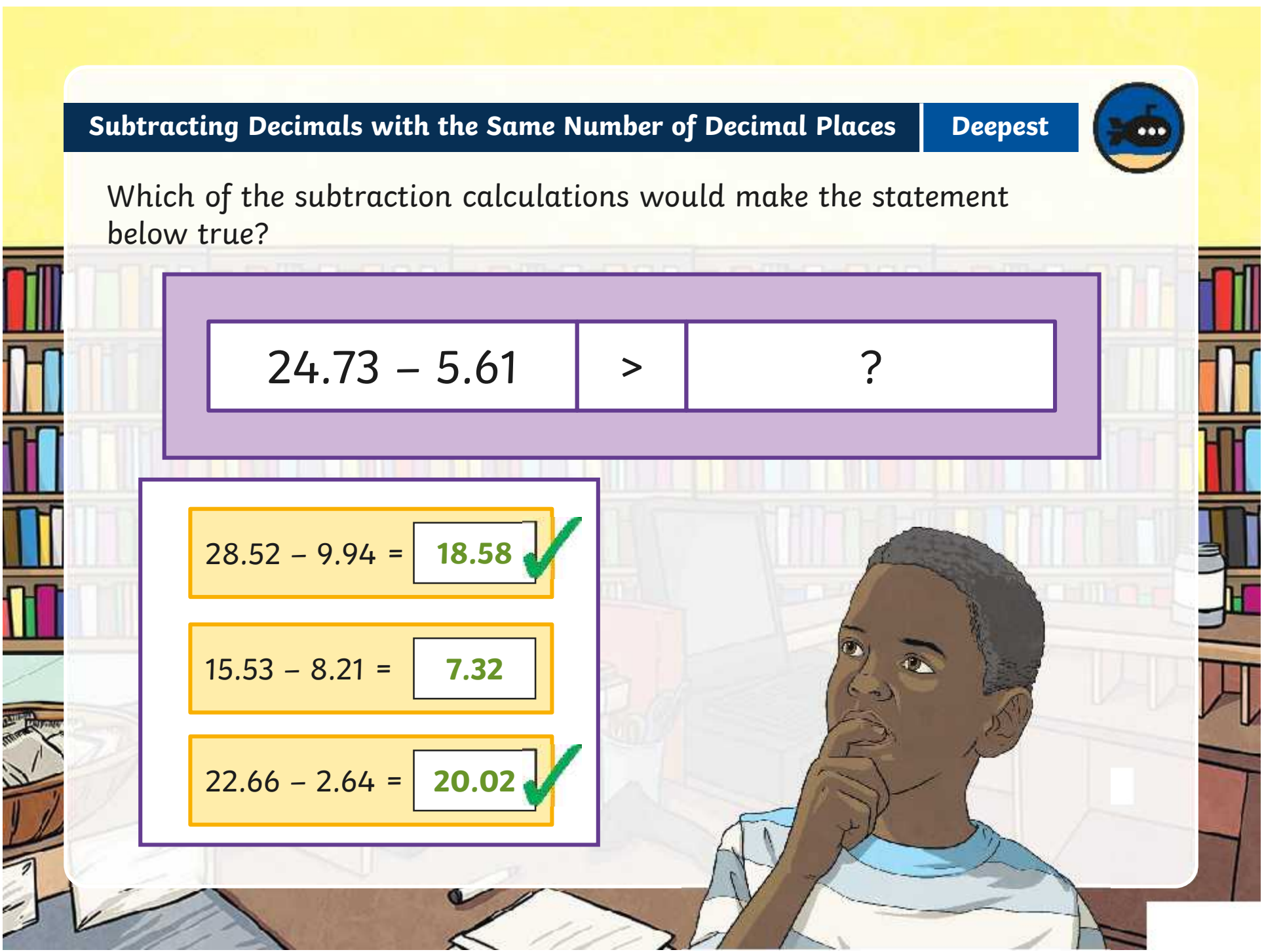
Which of the subtraction calculations would make the statement below true?

24.73 – 5.61	>	?

28.52 – 9.94 = **18.58** ✓

15.53 – 8.21 = **7.32**

22.66 – 2.64 = **20.02** ✓

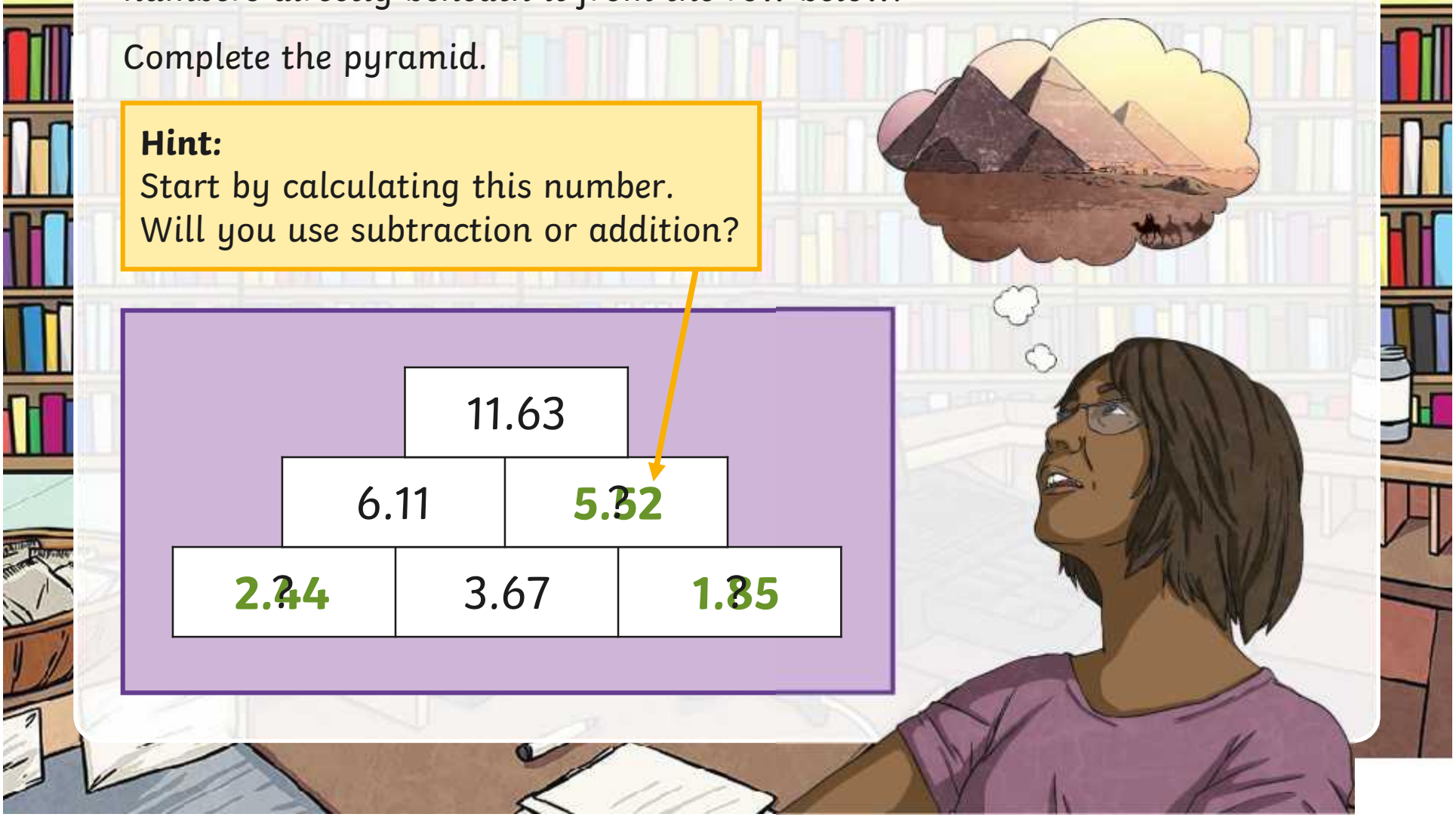


Subtracting Decimals with the Same Number of Decimal Places | Deepest

In the number pyramid, each number is calculated by adding the two numbers directly beneath it from the row below.

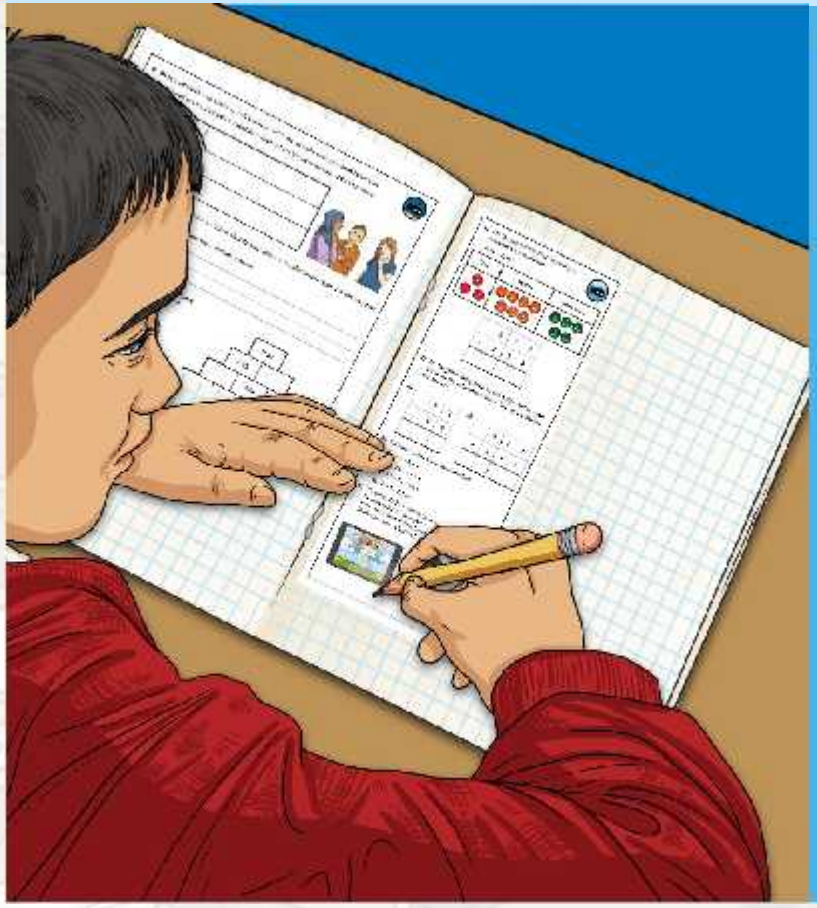
Complete the pyramid.

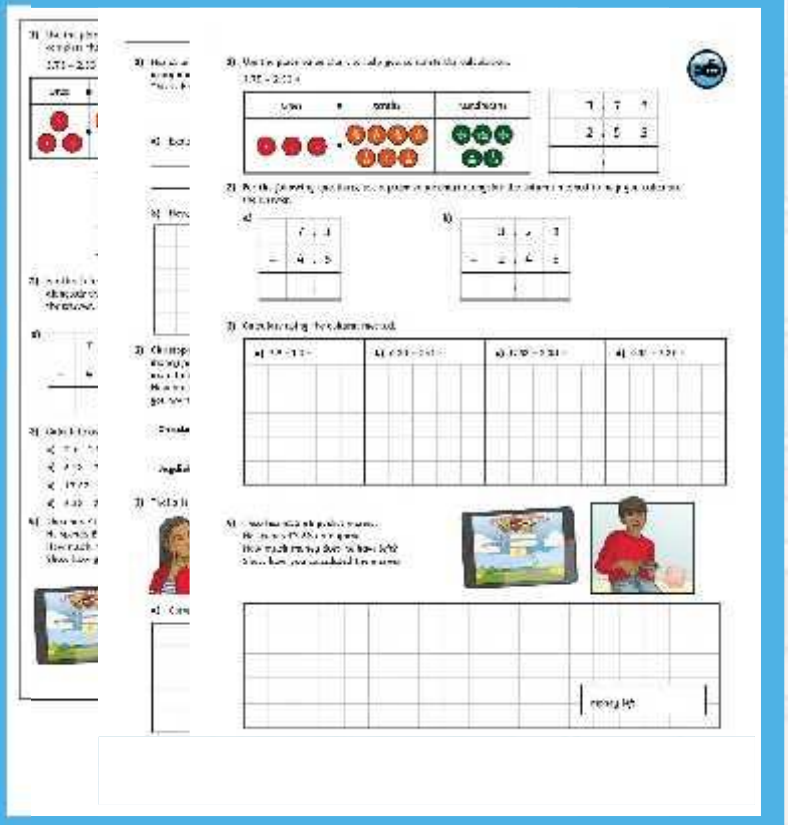
Hint:
Start by calculating this number.
Will you use subtraction or addition?



Subtracting Decimals with the Same Number of Decimal Places

Dive in by completing your own activity!





1) Use the place value chart to help you complete the calculation.

3.75 – 2.53 =

Ones	tenths	hundredths
1 1 1	$\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$	$\frac{1}{100}$ $\frac{1}{100}$ $\frac{1}{100}$ $\frac{1}{100}$ $\frac{1}{100}$

	3 .	7	5
–	2 .	5	3
	.		

2) For the following questions, use a place value chart alongside the column method to help you calculate the answer.

a)

	7 .	3
–	4 .	6
	.	

b)

	3 .	2	1
–	1 .	4	5
	.		

3) Calculate using the column method.

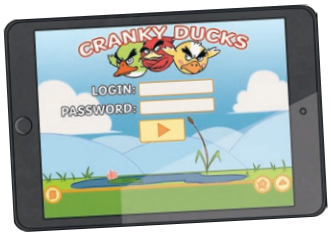
a) 2.9 – 1.3 =

b) 6.28 – 2.41 =

c) 17.52 – 2.38 =

d) 6.33 – 2.27 =

4) Theo has £12.65 pocket money.
He spends £3.68 on a game.
How much money does he have left?
Show how you calculated the answer.



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1 1 1	$\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$ $\frac{1}{10}$	$\frac{1}{100}$ $\frac{1}{100}$ $\frac{1}{100}$ $\frac{1}{100}$ $\frac{1}{100}$

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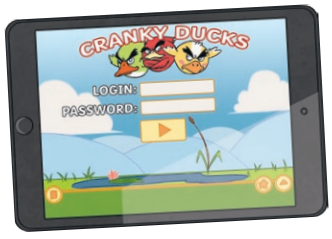


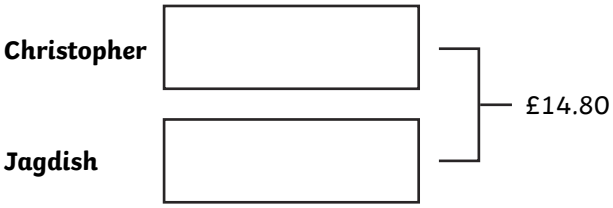
1) Harjot is working out the difference between 21.45 and 5.36 using a column method to calculate the answer.
This is how he set it out:

	2	1 .	4	5
–	5 .	3	6	

a) Explain the mistake Harjot has made.

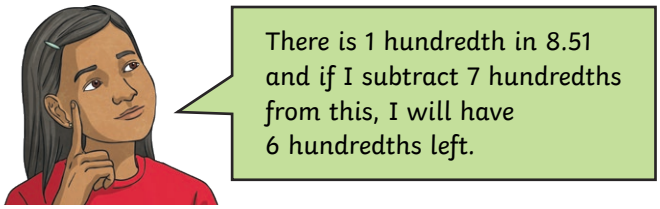
b) Now, calculate the answer.

2) Christopher and Jagdish have been collecting money for charity. Christopher collected £2.30 more than Jagdish. They collected £14.80 in total.



How much money did Jagdish collect? Show how you worked out the answer.

3) Thalia is completing the following calculation:
8.51 – 3.67 =



a) Do you agree with Thalia? Explain your answer.

b) Complete the calculation.

1) Harjot is working out the difference between 21.45 and 5.36 using a column method to calculate the answer.
This is how he set it out:

	2	1 .	4	5
–	5 .	3	6	

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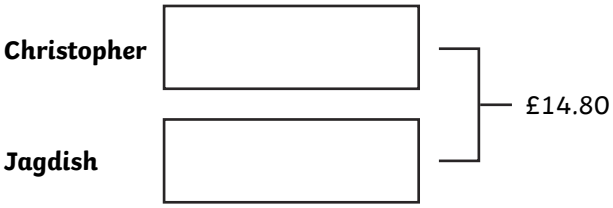

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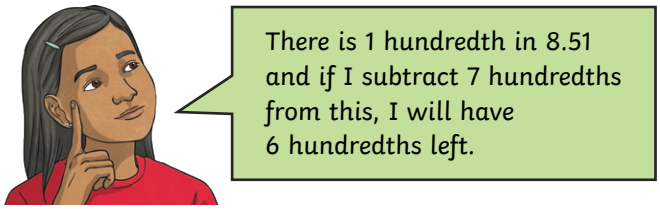

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1) Write a subtraction calculation, with answers, which would make each statement below true.

The numbers in each subtraction calculation need to have the same number of decimal places.

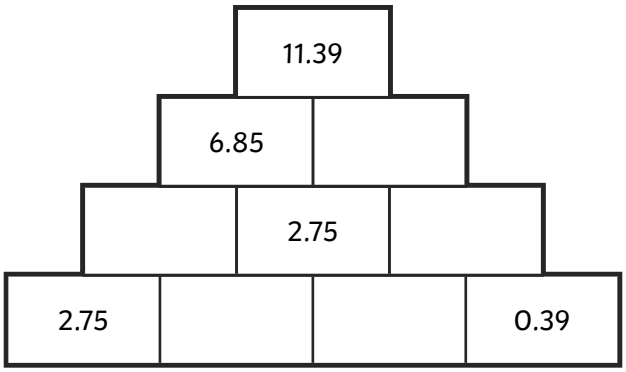
12.54 – 8.44	<	
26.04 – 3.51	>	
7.8 – 5.2	=	

2) Jen started with 12.34 and subtracted a number with 2 decimal places. A number greater than 2.5 and less than 6.8 was her answer.

Think of three calculations Jen could have done. Include answers.

3) In the number pyramid, each number is calculated by adding the two numbers directly beneath it from the row below.

Complete the pyramid.



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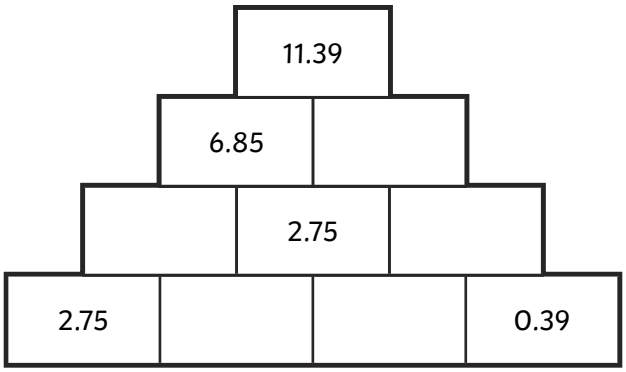
Complete the pyramid.