To watch me teach the lesson, follow the link...

https://www.loom.com/share/153362077d1c4bc09ed4c4160f3f6b03

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Maths Starter

Year 5 Spring 1 Maths Activity Mat 3

Section 1

Complete these linear sequences:

2765, 2775, _____, _____, _____

81 023, 81 123, _____, _____, _____

48 004, 49 004, _____, _____, _____

238 826, 248 826, _____, _____, _____

Section 2

Tick the statements that are true:

- 2 and 3 are prime numbers ☐
- 4 and 5 are not both prime numbers ☐
- Both 11 and 15 are not prime numbers. ☐

Section 3

Calculate:

20 × 6 = ☐

5 × 80 = ☐

40 × 40 = ☐

9 × 1100 = ☐

Section 4

Shade the following shapes so the same fraction is shaded in all and write the fraction shaded.

☐

☐

☐

Section 5

Round the following numbers to the nearest tenth:

20.45 ☐ 8.05 ☐

1.29 ☐ 7.77 ☐

Section 6

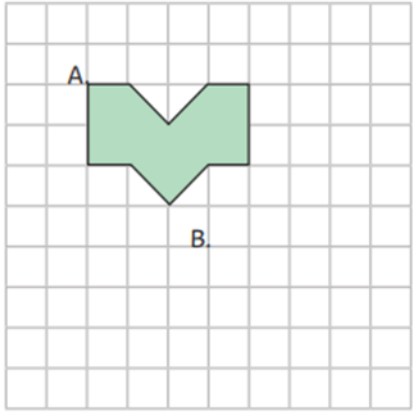
Jenny goes with her dad to visit her grandfather. The journey lasts 1 hour and 52 minutes. They arrive at 11:09. What time did they leave? ☐

Section 7

Use a ruler to draw a rectangle where the longer side is three times the length of the shorter side.

Section 8

Translate this shape from point A to point B



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Maths Starter Answers

Year 5 Spring 1 Maths Activity Mat 3 Answers

Section 1

Complete these linear sequences:

2765, 2775, 2785, 2795, 2805

81 023, 81 123, 81 223, 81 323, 81 423

48 004, 49 004, 50 004, 51 004, 52 004

238 826, 248 826, 258 826, 268 826, 278 826

Section 2

Tick the statements that are true:

- 2 and 3 are prime numbers ☑
- 4 and 5 are not both prime numbers ☑
- Both 11 and 15 are not prime numbers. ☐

Section 3

Calculate:

20 × 6 =	120
5 × 80 =	400
40 × 40 =	1600
9 × 1100 =	9900

Section 4

Shade the following shapes so the same fraction is shaded in all and write the fraction shaded.

Answers will vary

Section 5

Round the following numbers to the nearest tenth:

20.45	20.5	8.05	8.1
1.29	1.3	7.77	7.8

Section 6

Jenny goes with her dad to visit her grandfather. The journey lasts 1 hour and 52 minutes. They arrive at 11:09. What time did they leave?

09:17

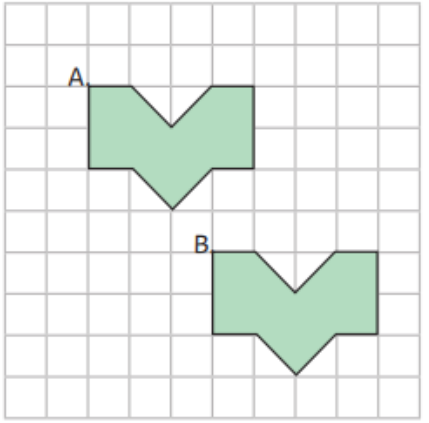
Section 7

Use a ruler to draw a rectangle where the longer side is three times the length of the shorter side.

Answers will vary

Section 8

Translate this shape from point A to point B



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Lesson Objective

To Add and Subtract Decimals

Problem Solving & Reasoning

09.02.21

Lesson Objective: To add and subtract decimals problems solving

★ Success Criteria ★		Me	Miss A
★			
1	I can solve problems involving the addition and subtraction of decimals that have the same number of decimal places		
2	I can solve problems involving the addition and subtraction of decimals that have different decimal places		
3	I can reason and solve problems involving the addition and subtraction of decimals that have different decimal places		

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How to add and subtract decimals

This week we are looking at how to add and subtract decimal numbers.

Today is a problem solving and reasoning lesson. We will be focusing on the skill of adding and subtracting decimals but thinking deeply about this.

We will start by recapping what we learnt yesterday.

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Let's start with a problem

Three friends go shopping. Sara spends £17·26, Mary spends £8·50 and George spends £20·08. How much do they spend altogether?

If you are finding this tricky, come back to this question at the end of the lesson and see if you can solve it after some practise today.

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Answer

Three friends go shopping. Sara spends £17·26, Mary spends £8·50 and George spends £20·08. How much do they spend altogether?

Column addition lining up the decimal points & place value headings.

£17.26 + £8.50 + £20.08 = £45.84

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Let's recap

When solving problems involving addition and subtraction of decimals, we must remember everything we learnt yesterday.

1) Line up the decimal point/place value headings

2) Add or subtract the numbers starting from the right

3) Put Os in place value holders

4) Add and subtract the number carefully

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Recap

With formal methods, you need to line up the different place values. The decimal point will also be lined up.

Which calculation is correct? Explain why.

$$\begin{array}{r} 345.6 \\ +\ 49.24 \\ \hline \\ \hline \end{array}$$

The matching place values and decimal point are lined up.

✔

$$\begin{array}{r} 345.6 \\ +\ 49.24 \\ \hline \\ \hline \end{array}$$

The matching place values and decimal point are **not** lined up.

✘

Hide Answers

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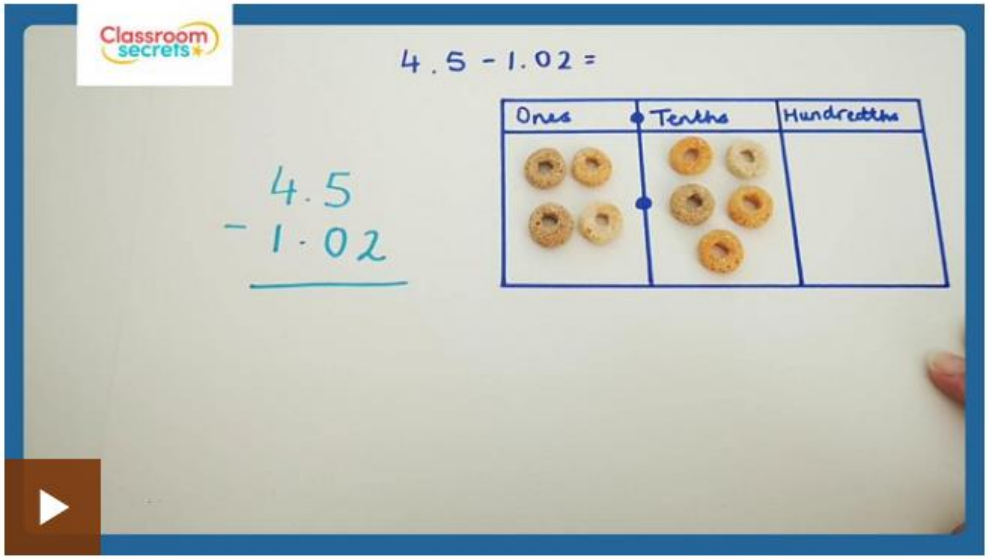
Recap Video

https://www.bbc.co.uk/bitesize/articles/z6t3hcw

This video demonstrates how to practise subtracting decimal numbers that have a different number of decimal places.

Throughout the video, there are some questions to answer. You will need to pause the video at these points to allow time to answer.



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Problem Solving Questions

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

	3	.	4	2
+	3	.	3	6
		.		

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

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Answer

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

	3	.	4	2
+	3	.	3	6
	6	.	**7**	**8**

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

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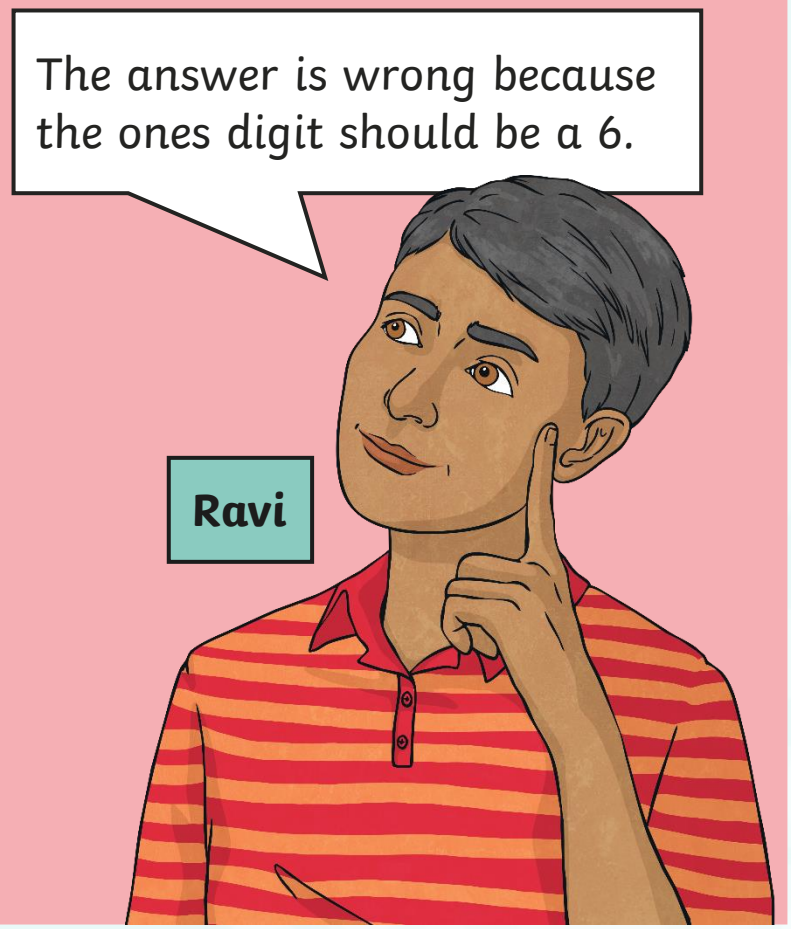
Do you agree with Ravi? Explain your reasoning.

	4	.	5	2
+	2	.	8	3
	7	**.**	**3**	**5**

1



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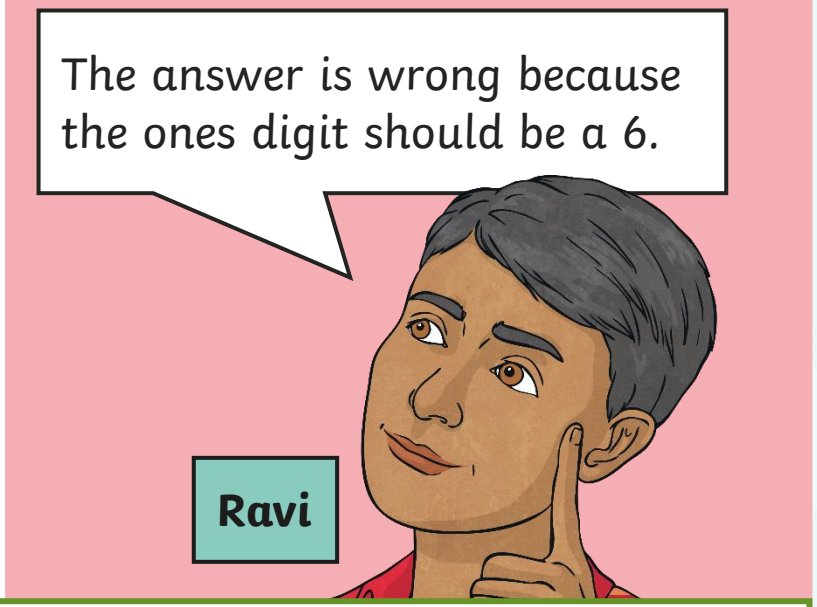
Answer

	4	.	5	2
+	2	.	8	3
	7	**.**	**3**	**5**

1



Ravi is incorrect – the answer shown is correct. The digits in the tenths column add to make 13 tenths, so 10 tenths are exchanged for 1 one, making the ones column total 7.

However, they forgot to write the small 1 to show that the tenths have been exchanged for a one.

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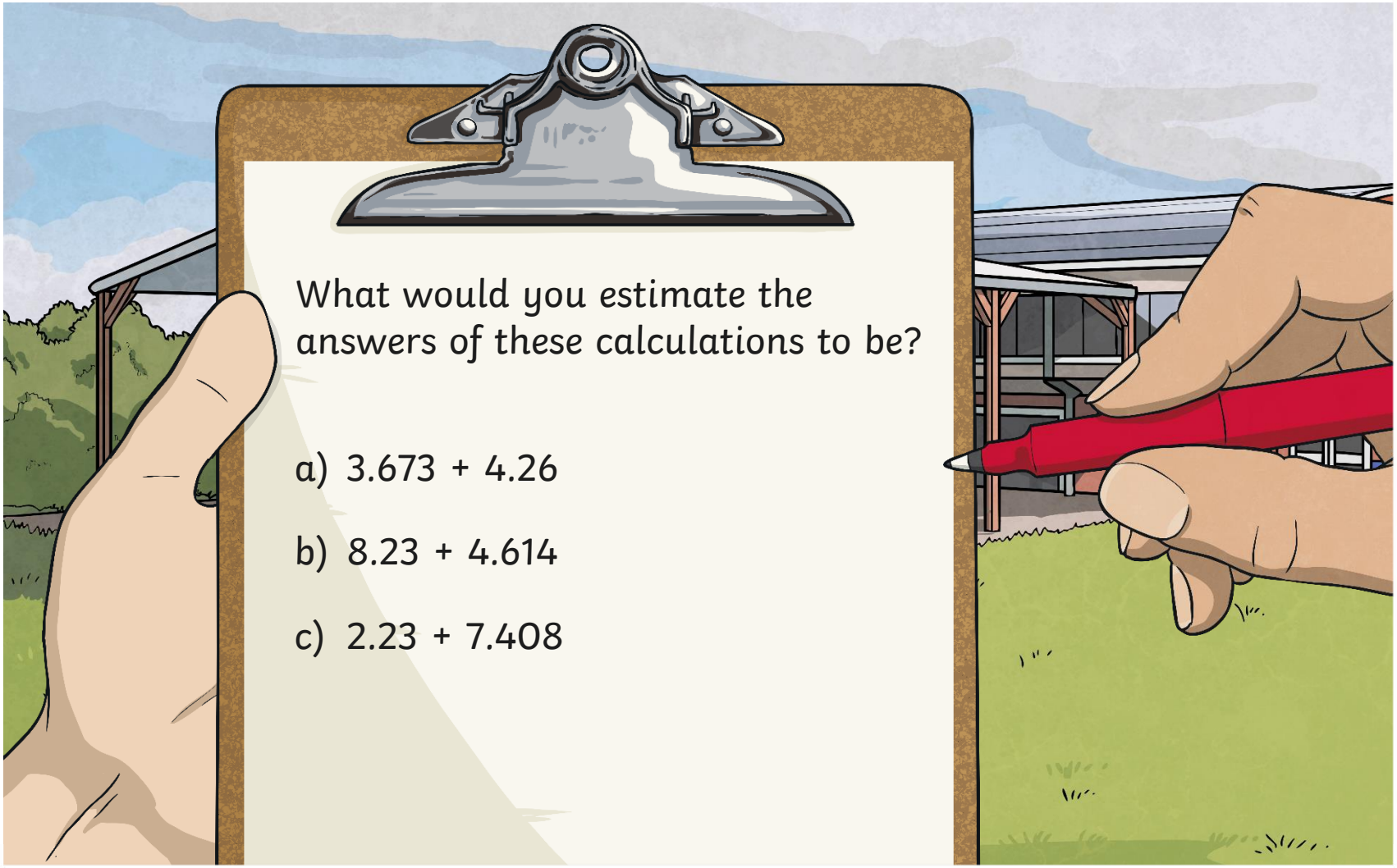
What would you estimate the answers of these calculations to be?
a) 3.673 + 4.26
b) 8.23 + 4.614
c) 2.23 + 7.408

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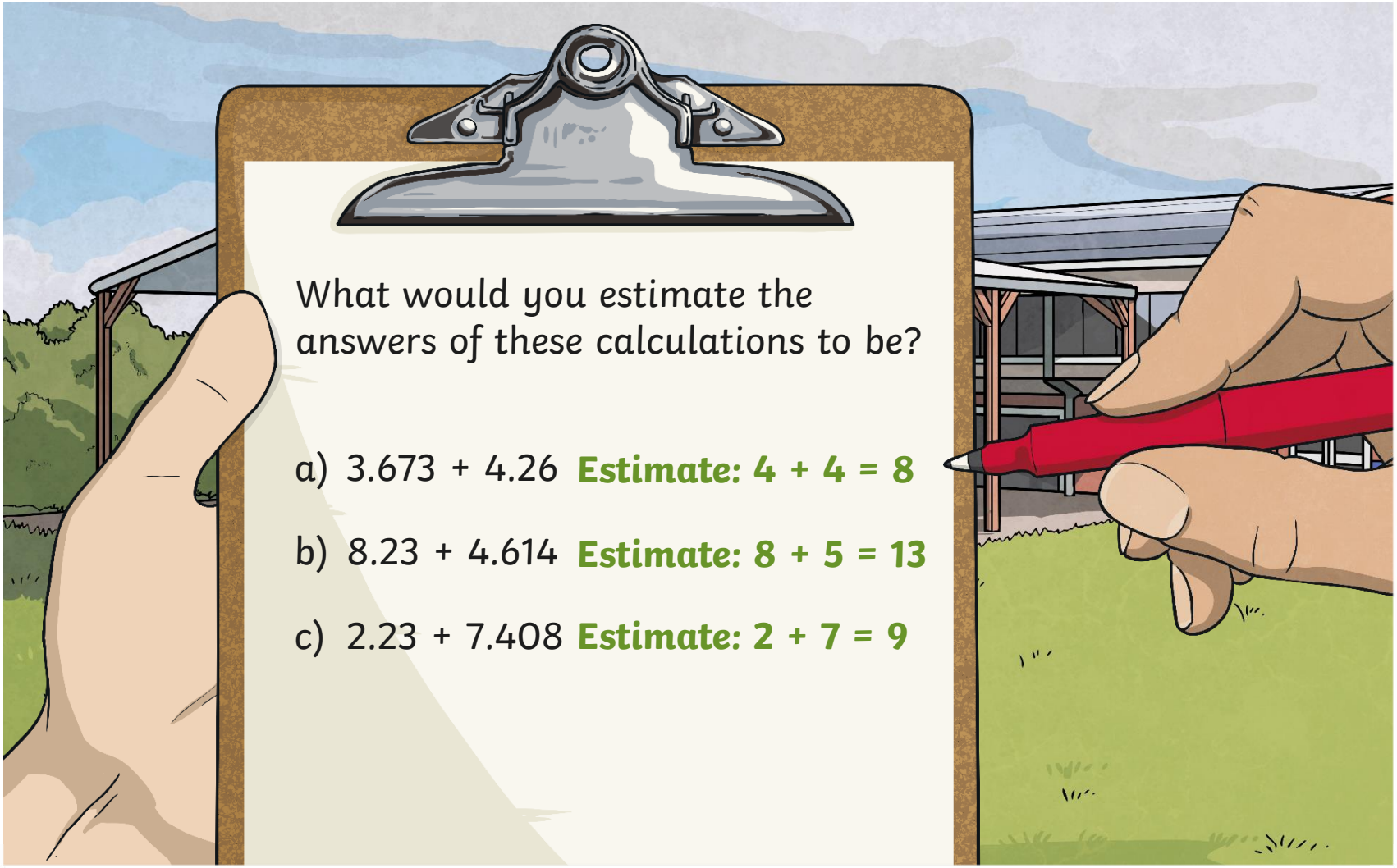
Answer



What would you estimate the answers of these calculations to be?

a) 3.673 + 4.26 **Estimate: 4 + 4 = 8**

b) 8.23 + 4.614 **Estimate: 8 + 5 = 13**

c) 2.23 + 7.408 **Estimate: 2 + 7 = 9**

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Fern and John are adding two decimal numbers.
They both have different answers. Who is correct?
What mistake has the other person made?

Fern

	3	2	5	
+	4	4	7	3
	7	**7**	**2**	**3**
		1		

John

	3	2	5	
+	4	4	7	3
	7	**6**	**2**	**3**

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Answer

Fern and John are adding two decimal numbers.
They both have different answers. Who is correct?
What mistake has the other person made?

Fern

	3	2	5	
+	4	4	7	3
	7	**7**	**2**	**3**
		1		

John

	3	2	5	
+	4	4	7	3
	7	**6**	**2**	**3**

Fern is correct. John has made an error. He has not recorded his regroup digit in the tenths column.

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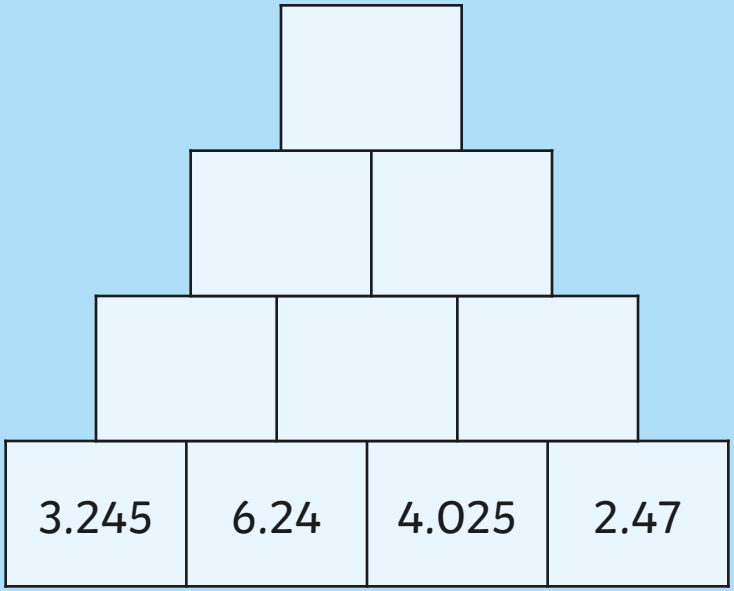
Complete this addition pyramid. The block above each pair of blocks is the total of the numbers below it.



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Answer

Complete this addition pyramid.
The block above each pair of blocks is the total of the numbers below it.

			36.51			
		19.75		16.76		
	9.485		10.265		6.495	
3.245		6.24		4.025		2.47

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Activity

Complete Maths Worksheet 1

09.02.21

Lesson Objective: To add and subtract decimals - problems solving & reasoning

	Success Criteria	Me	Miss A
★			
1	I can solve problems involving the addition and subtraction of decimals that have the same number of decimal places		
2	I can solve problems involving the addition and subtraction of decimals that have different decimal places		
3	I can reason and solve problems involving the addition and subtraction of decimals that have different decimal places		

Red Group

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

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

	2	.	6	5
+	3	.	2	2
		.		

2) Use the column method to solve these calculations.

a)

	7	.	5	2
+	1	.	2	9

b)

	6	5	.	8	3
+	3	1	.	4	5

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