

WA6MNACN3

Calculating with number

Core + Challenge

Adding and Subtracting Decimals

I can add and subtract decimals to two decimal places using columns, grids and number lines.

Name: _____ Date: _____ Score: _____ / 56

Key idea

Line up the **decimal points**, so ones are under ones, tenths under tenths and hundredths under hundredths.

Write a **zero** in an empty place if it helps: $2.8 = 2.80$. Then add or subtract as with whole numbers.

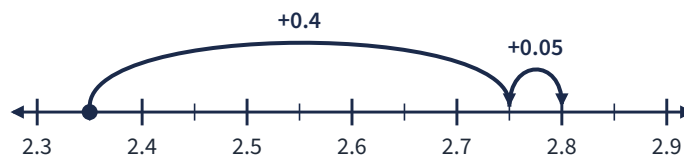
Example: $3.46 + 2.8 = 3.46 + 2.80 = \mathbf{6.26}$.

Mental strategy: **count on** in jumps. $2.35 + 0.45 = 2.35 + 0.4 + 0.05 = \mathbf{2.8}$.

Columns: $3.46 + 2.80$

	0	t	h
	3	4	6
+	2	8	0
	6	2	6

Number line: $2.35 + 0.4 + 0.05$

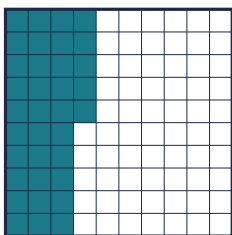


A Warm up *shade grids and jump on number lines*

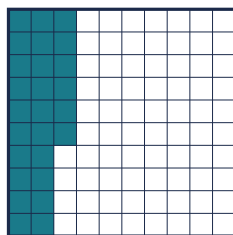
/ 16 marks

The grid shows the first number. Shade the second number. Write the total. 1 mark each.

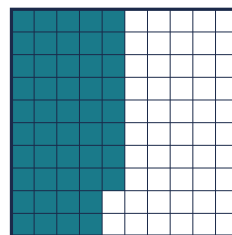
1 $0.35 + 0.4 =$



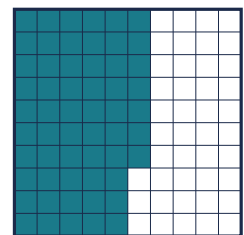
2 $0.26 + 0.13 =$



3 $0.48 + 0.3 =$



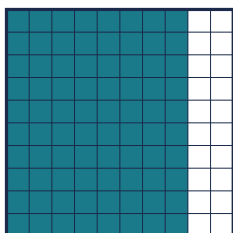
4 $0.57 + 0.08 =$



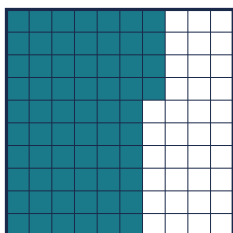
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The grid shows the first number. Cross out the second number. Write what is left. 1 mark each.

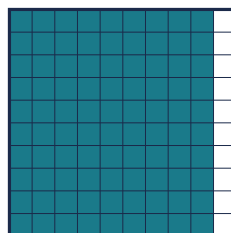
5 $0.8 - 0.25 =$



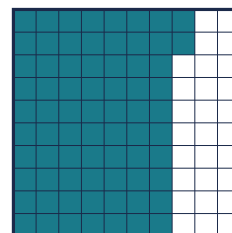
6 $0.64 - 0.3 =$



7 $0.9 - 0.07 =$



8 $0.72 - 0.45 =$



Work these out. Line up the decimal points. 1 mark each.

9 $4.6 + 2.3 =$

10 $7.25 - 3.1 =$

11 $5.8 + 0.45 =$

12 $10 - 3.64 =$

The dot shows the first number. Draw a jump to show the calculation. Write the answer. 1 mark each.

13 $2.4 + 0.7 =$



14 $1.35 + 0.2 =$



15 $5.2 - 0.6 =$



16 $3.08 - 0.1 =$



B

Practise *use the skill*

/ 21 marks

- 1 Jo walks **2.75 km** to Kings Park. Then she walks **1.6 km** around the park. Write both numbers in the place-value columns and add them. How far does Jo walk altogether? [2 marks]

	O	t	h
+			

Answer: _____

- 2 Complete Ellie's receipt from **Coles**. She pays with a **\$20** note. How much change does she get? [3 marks]

Item	Price
Bread	\$3.85
Milk	\$2.40
Apples	\$4.60
Total	
Change from \$20	

Answer: _____

- 3 In the Year 6 high jump, Ella cleared **1.25 m** and Priya cleared **1.08 m**. Count up on the number line to find how much higher Ella jumped. [2 marks]



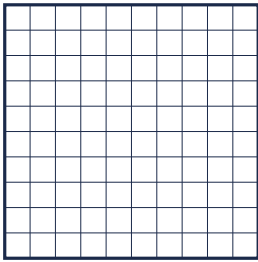
Answer: _____

- 4 The table shows the rain in a Perth rain gauge. **a)** How much rain fell altogether? **b)** How much more rain fell on Monday than on Tuesday? [2 marks]

Day	Rain (mm)
Monday	12.4
Tuesday	8.75
Wednesday	0.6

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- 5 A school garden is split into 100 equal squares. Tomatoes are planted in **0.35** of the garden and herbs in **0.4**. Shade the parts that are planted. What decimal of the garden is **not** planted? [2 marks]



Answer: _____

- 6 Josh's **SmartRider** has **\$12.50** on it. He takes two bus trips that cost **\$3.20** each. [3 marks]
Then he tops up **\$10**. Complete the boxes to find how much is on his card now.



- 7 Some digits are missing from this addition. Fill in the missing digits. Explain how you found them. [2 marks]

	o	t	h
	3		6
+		4	8
	6	0	4

- 8 Draw a line to join each pair of decimals that add to **1**. [2 marks]

0.35	•	0.54
0.8	•	0.65
0.07	•	0.93
0.46	•	0.2

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- 9 The table shows the times of a 4×100 m **relay** team at the athletics carnival. **a)** [3 marks]
What was the team's total time? **b)** How much faster was the fastest runner than the slowest runner?

Runner	Time (s)
Ana	14.26
Bella	13.9
Chloe	14.05
Dee	13.8

C Think it through *explain your thinking*

/ 10 marks

- 1 Tom worked out $4.5 + 2.36$ and got **2.81**. Do you agree with Tom? Explain his mistake and find the correct answer. [2 marks]

- 2 **True or false?** $8 - 2.35 = 6.35$. Explain how you know. [2 marks]

- 3 **Always, sometimes or never true?** "When you add two numbers that each have two decimal places, the answer has two decimal places." Give examples. Circle one below. [2 marks]

Always

Sometimes

Never

- 4 Which is the **odd one out**? $3.5 - 1.25$, $1.9 + 0.35$, $4 - 1.75$, $2.6 - 0.45$ Explain. [2 marks]

- 5 Ruby worked out $6.98 + 2.45$ by doing **$7 + 2.45 - 0.02$** . Explain why her method works. Use her method to work out $5.99 + 3.27$. [2 marks]

D**Challenge** *stretch yourself*

/ 9 marks

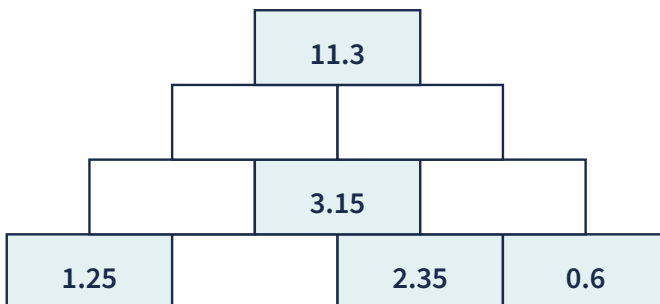
- 1 Leah has **\$10** to spend at the school canteen. She buys two **different** items. **a)** [3 marks]
List every pair she can afford. **b)** Which pair leaves her with the **least** change?
How much change?

Item	Price
Sandwich	\$4.80
Sushi	\$3.45
Pasta	\$5.25
Burrito	\$6.70
Juice	\$2.95

- 2 Sam went shopping. He spent **\$12.35** at Kmart. Then his gran gave him **\$5.50**. [3 marks]
Then he spent **\$8.90** at Woolies. He now has **\$18.40**. How much money did Sam
have at the **start**?

Answer: _____

- 3 In this pyramid, each box is the **sum** of the two boxes below it. Fill in the empty [3 marks]
boxes.

**How did I go?**Warm up ___ / 16 Practise ___ / 21 Think it through ___ / 10 Challenge ___ / 9 **Total** ___ / 56Want help with Year 6 maths? Our tutors make it click. **Book a free trial class at [edulift.com.au](https://www.edulift.com.au)**