

WA5MNACN1

Calculating with number

Core + Challenge

NAPLAN-style

Adding and Subtracting Large Numbers

I can add and subtract large numbers using jumps, friendly numbers and the column method.

Name: _____ Date: _____ Score: _____ / 56

Key idea

Jump strategy: jump along a number line in thousands, then hundreds, tens and ones.

Compensation: use a **friendly** number that is close, then **adjust**.

Column method: line up the places. Start with the **ones**. Trade (regroup) when you need to.

Example: $4,562 + 2,997$. Add 3,000 to get 7,562, then take away 3: the answer is **7,559**.

Compensation: $4,562 + 2,997$



Column method: $6,254 - 2,718$

	Th	H	T	O
	~~6~~ ⁵	¹ 2	~~5~~ ⁴	¹ 4
-	2	7	1	8
	3	5	3	6

A Warm up *jump, adjust and complete*

/ 16 marks

Draw your jumps on the number line. Start at the dot. Write the answer. 1 mark each.

1 $4,300 + 2,500 =$



2 $6,750 - 3,200 =$



3 $5,980 + 1,400 =$



4 $8,200 - 2,600 =$



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Use a friendly number. Write the steps on the arrows and the numbers in the boxes. 1 mark each.

5 $3,456 + 999$

3,456	→		→	
-------	---	--	---	--

6 $7,210 - 998$

7,210	→		→	
-------	---	--	---	--

7 $2,645 + 1,998$

2,645	→		→	
-------	---	--	---	--

8 $12,500 - 4,999$

12,500	→		→	
--------	---	--	---	--

Write the missing digits in the boxes. 1 mark for each calculation.

9

	Th	H	T	O
	3		4	7
+	2	5		8
	6	2	0	

10

	Th	H	T	O
	4	3		6
+	1		7	5
	6	3	6	

11

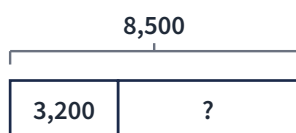
	Th	H	T	O
	7	5	2	
-	2	6		8
	4		7	5

12

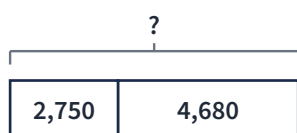
	Th	H	T	O
	8	0	0	4
-	3		6	7
	4	4		

Find the missing number ? in each bar model. 1 mark each.

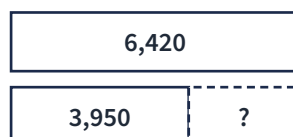
13



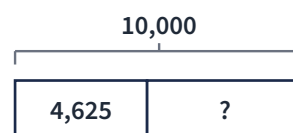
14



15



16



B

Practise *use the skill*

/ 21 marks

- 1 The Rottnest ferry carried **3,648** people on Saturday and **2,875** people on Sunday. **Estimate** the total first. Then use the column method to find the exact total. [2 marks]

	Th	H	T	O
	3	6	4	8
+	2	8	7	5

Answer: _____

- 2 Optus Stadium has **60,000** seats. At a Perth Scorchers game the crowd was **47,385**. Label the bar model. How many seats were **empty**? Check your answer with addition. [3 marks]



Answer: _____

- 3 The school P&C has raised **\$4,750**. The goal is **\$8,200**. Count on with jumps from 4,750 to 8,200. How much more money do they need? [2 marks]



Answer: _____

- 4 A car costs **\$24,999** and a trailer costs **\$3,650**. Use a friendly number to find the total cost. Fill in the boxes and the arrows. [2 marks]



Answer: _____

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- 5 A family records their car's **odometer** (the distance meter). Each trip starts where the last one ended. Complete the table. [3 marks]

Trip	Start (km)	End (km)	Distance (km)
1	45,820	47,305	
2	47,305		2,650
3		53,100	3,145

- 6 Circle the answer to $5,003 - 1,998$. Show how you know. [2 marks]

3,005

3,995

3,015

7,001

Answer: _____

- 7 For Clean Up Australia Day, School A collected **2,468** cans. School B collected **1,379 more** than School A. Label the bar model. How many cans did School B collect? How many cans altogether? [3 marks]



Answer: _____

- 8 Kai worked out $7,406 - 2,859 = 4,547$. Use **addition** to check his answer. Is Kai correct? [2 marks]

	Th	H	T	O
	4	5	4	7
+	2	8	5	9

Answer: _____

- 9 A library had **12,450** books. It gave away **1,386** old books. Then it bought **2,075** new books. How many books does it have now? [2 marks]

Answer: _____

C

Think it through *explain your thinking*

/ 10 marks

- 1 Sam worked out $5,204 - 1,368$ like this. Do you agree with Sam? Explain his mistake and find the correct answer. [2 marks]

	Th	H	T	O
	5	2	0	4
–	1	3	6	8
	4	1	6	4

- 2 **True or false?** $6,000 - 2,999 = 6,001 - 3,000$. Explain **without** working out both sides. [2 marks]

- 3 **Always, sometimes or never true?** “When you add two 4-digit numbers, the answer has 4 digits.” Circle one. Give examples. [2 marks]

Always

Sometimes

Never

- 4 Which is the **odd one out**? Explain. [2 marks]
 $4,500 + 2,700$ $8,000 - 800$ $3,600 + 3,600$ $9,100 - 1,800$

- 5 Ava uses the column method for $7,000 - 3,996$ and has to trade across three zeros. Explain a **quicker** strategy. Use it to find the answer. [2 marks]

D**Challenge** *stretch yourself*

/ 9 marks

- 1 Use the digits **2, 3, 4, 5, 6** and **7** once each to make two 3-digit numbers. [3 marks]

and

a) Make the **largest** possible **sum**. **b)** Make the **smallest** possible **difference**.

Answer: _____

- 2 I think of a number. I add **2,450**. Then I subtract **3,675**. My answer is **5,008**. Work backwards to find my number. Fill in the boxes, then check. [3 marks]



Answer: _____

- 3 A car's odometer shows **15,951** km. This is a **palindrome** (it reads the same forwards and backwards). **a)** What is the **next** palindrome the odometer will show? **b)** How many more kilometres until then? **c)** What was the palindrome **before** 15,951, and how many kilometres ago was it? [3 marks]

Answer: _____

How did I go?

Warm up ___ / 16 Practise ___ / 21 Think it through ___ / 10 Challenge ___ / 9 **Total** ___ / 56

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