Year 4 maths: Adding and subtracting: strategies and estimates (Medium)

Maths · Number · Level: Medium

Student: _____ Date: _____

Instructions
- There are 10 questions. Read each one carefully.
- Write your answers on this paper. Use the space under a question to work it out.
- A grown-up can read a question aloud — that's fine.
- The answers are at the end. Check them together when you have finished.

Questions

1. What is 4675 + 2758?

Circle one answer.

○ **A** 7433 ○ **B** 7423 ○ **C** 7533 ○ **D** 6323

2. Kai worked out 5163 − 2738 like this. What is the right answer?

Circle one answer.

	Th	H	T	O
	5	1	6	3
−	2	7	3	8
	3	6	3	5

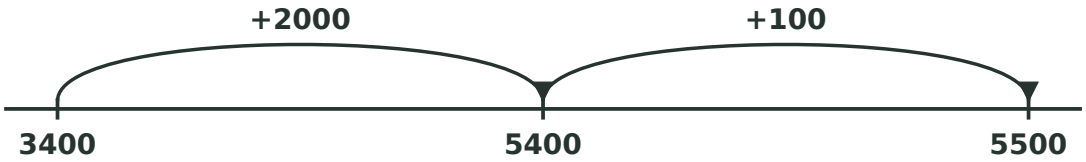
○ **A** 3435 ○ **B** 3635 (Kai is right) ○ **C** 2425

3. Work out 4020 − 50 by jumping back to 4000 first. Answer: ☐

Working:

4. Tia worked out 3400 + 1900 with these jumps. What should the answer be?

Circle one answer.



○ **A** 5400 ○ **B** 5300 ○ **C** 5500 (Tia is right)

5. Round 6472 to the nearest thousand.

Circle one answer.

○ **A** 6000 ○ **B** 6500 ○ **C** 6470

6. □ − 1475 = 2350. What number goes in the box? Answer: ____

Working:

7. Which sum checks that 5003 − 2768 = 2235?

Circle one answer.

○ **A** 5003 + 2235 ○ **B** 2235 + 2768 ○ **C** 5003 + 2768

8. 1650 litres of water were used from a tank. The tank held 4200 litres. Which number sentence finds how much water is left?

Circle one answer.

○ **A** 4200 + 1650 ○ **B** 1650 − 4200 ○ **C** 4200 − 1650

9. Remy worked out 3684 + 2547 like this. What is the right answer?

Circle one answer.

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

○ **A** 6221
○ **B** 6231
○ **C** 5121 (Remy is right)

10. The number line goes up in equal jumps. What is the number at ? rounded to the nearest thousand? Answer: ____



Working:

Answer key

Year 4 maths: Adding and subtracting: strategies and estimates (Medium) · Sheet 998734

1. A — 7433

Add each place: 4000 + 2000 = 6000, 600 + 700 = 1300, 70 + 50 = 120 and 5 + 8 = 13. Then 6000 + 1300 + 120 + 13 = 7433.

2. C — 2425

Trade first where a place is too small: 5163 is 4 thousands, 11 hundreds, 5 tens and 13 ones. Then 13 − 8 = 5, 5 − 3 = 2, 11 − 7 = 4 and 4 − 2 = 2, so 5163 − 2738 = 2425. Kai took the smaller digit from the bigger one in each place.

3. 3970

Jump back to 4000 first: 4020 − 20 = 4000. That uses 20 of the 50, so 30 is left: 4000 − 30 = 3970.

4. B — 5300

1900 is 100 less than 2000. 3400 + 2000 = 5400. That adds 100 too many, so take 100 away: 5400 − 100 = 5300. Tia adjusted the wrong way.

5. A — 6000

6472 is between 6000 and 7000. Halfway is 6500. 6472 is before halfway, so it rounds down: 6472 rounded to the nearest thousand is 6000.

6. 3825

Undo taking away 1475 by adding it back: 2350 + 1475 = 3825. Check: 3825 − 1475 = 2350.

7. B — 2235 + 2768

The answer and the number taken away add up to the number you started with: 2235 + 2768 = 5003.

8. C — 4200 − 1650

Start with the whole amount, 4200, and take away 1650. 4200 − 1650 = 2550.

9. B — 6231

Add each place: 3000 + 2000 = 5000, 600 + 500 = 1100, 80 + 40 = 120 and 4 + 7 = 11. Then 5000 + 1100 + 120 + 11 = 6231. Remy wrote down only the last digit of each place and lost the trades.

10. 4000

The line goes from 3000 to 4000 in 10 jumps, so each jump is 100. The ? is 6 jumps along: 3600. 3600 is between 3000 and 4000. Halfway is 3500. 3600 is past halfway, so it rounds up: 3600 rounded to the nearest thousand is 4000.