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

Maths · Number
Level: Hard

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. Work out 3789 + 4567.

Answer: ☐

Working:

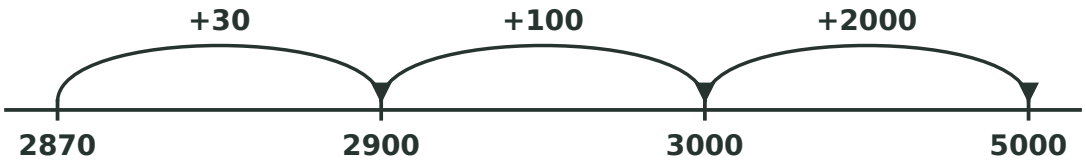
2. Jump to the next thousand first to work out 3980 + 1450.

Answer: ☐

Working:

3. Rua counts up from 2870 to 5000 with these jumps. How far is it from 2870 to 5000?

Answer: ☐



Working:

4. Leo worked out 6230 − 1980 with these jumps. What should the answer be?

Circle one answer.



○ **A** 4210 (Leo is right) ○ **B** 4250

○ **C** 4230

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5. 8100 − □ = 4675. What number goes in the box? Answer: ☐

Working:

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6. □ − 2785 = 3460. What number goes in the box? Answer: ☐

Working:

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7. The school fete raised $2465 on Saturday and $1870 on Sunday. The school spent $3150 on a shade sail. How much of the money is left? Answer: $ ☐

Working:

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8. Bec ran 1875 metres. Cal ran 2340 metres. Which number sentence finds how much further Cal ran?

Circle one answer.

○ **A** 1875 − 2340 ○ **B** 2340 + 1875 ○ **C** 2340 − 1875

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9. The number line goes up in equal jumps. What is the number at ? rounded to the nearest thousand?

Answer:



Working:

10. □ + 4310 = 4310 + 2875. What number goes in the box?

Answer:

Working:

Answer key

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1. 8356

Add each place: 3000 + 4000 = 7000, 700 + 500 = 1200, 80 + 60 = 140 and 9 + 7 = 16. Then 7000 + 1200 + 140 + 16 = 8356.

2. 5430

Jump to the next thousand first: 3980 + 20 = 4000. That uses 20 of the 1450, so 1430 is left: 4000 + 1430 = 5430.

3. 2130

Add the jumps: 30 + 100 + 2000 = 2130. So 5000 − 2870 = 2130.

4. B — 4250

1980 is 20 less than 2000. 6230 − 2000 = 4230. That takes away 20 too many, so add 20 back: 4230 + 20 = 4250. Leo adjusted the wrong way.

5. 3425

The two parts make 8100, so the box is 8100 − 4675 = 3425. Check: 8100 − 3425 = 4675.

6. 6245

Undo taking away 2785 by adding it back: 3460 + 2785 = 6245. Check: 6245 − 2785 = 3460.

7. $1185

Raised altogether: $2465 + $1870 = $4335. Left: $4335 − $3150 = $1185.

8. C — 2340 − 1875

'How much further' is the difference: the longer run take away the shorter run. 2340 − 1875 = 465.

9. 6000

The line goes from 6000 to 7000 in 10 jumps, so each jump is 100. The ? is 4 jumps along: 6400. 6400 is between 6000 and 7000. Halfway is 6500. 6400 is before halfway, so it rounds down: 6400 rounded to the nearest thousand is 6000.

10. 2875

Adding in either order gives the same total, so □ + 4310 = 4310 + 2875 when □ is 2875. Both sides make 7185: 2875 + 4310 = 7185.