

WA4MNAAS1

Calculating with number

Core + Challenge

# Estimating Sums & Differences

I can estimate the answer to an addition or subtraction by rounding first.

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Score: / 53

## Key idea

**Estimating:** round each number to the nearest 100 (or another sensible place value) before adding or subtracting. This gives a quick, approximate answer — useful for checking whether an exact answer is reasonable.  
E.g.  $3,912 + 4,187$ : round to  $3,900 + 4,200 = 8,100$  (estimate).

## A Fluency *practise the skill*

/16 marks

Round each number to the nearest 100, then estimate the answer.

1.  $3,912 + 4,187 \approx ?$  \_\_\_\_\_

2.  $2,456 + 1,832 \approx ?$  \_\_\_\_\_

3.  $6,721 - 2,340 \approx ?$  \_\_\_\_\_

4.  $5,089 + 3,214 \approx ?$  \_\_\_\_\_

5.  $8,345 - 3,678 \approx ?$  \_\_\_\_\_

6.  $1,963 + 2,055 \approx ?$  \_\_\_\_\_

7.  $7,214 - 1,489 \approx ?$  \_\_\_\_\_

8.  $4,567 + 2,345 \approx ?$  \_\_\_\_\_

9.  $9,087 - 4,512 \approx ?$  \_\_\_\_\_

10.  $3,456 + 4,321 \approx ?$  \_\_\_\_\_

11.  $6,234 - 2,789 \approx ?$  \_\_\_\_\_

12.  $2,198 + 3,845 \approx ?$  \_\_\_\_\_

13.  $5,678 - 1,234 \approx ?$  \_\_\_\_\_

14.  $1,789 + 2,654 \approx ?$  \_\_\_\_\_

15.  $8,912 - 3,456 \approx ?$  \_\_\_\_\_

16.  $4,345 + 5,678 \approx ?$  \_\_\_\_\_

## B Core *apply the skill to problems*

/21 marks

1

A fun run had 3,874 participants on Saturday and 2,156 participants on Sunday. Estimate the total number of participants across both days by rounding each to the nearest 100.

[3 marks]

Answer: \_\_\_\_\_

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2

A warehouse has two incoming shipments of 4,523 and 3,187 items. (a) Estimate the total number of items by rounding each to the nearest 100. (b) The warehouse can store 8,000 items. Based on your estimate, will there be enough room? Explain.

[4 marks]

Answer: \_\_\_\_\_

3

A charity auction raised \$6,245 from one donor and \$2,789 from another. Estimate the combined amount raised by rounding each to the nearest 100.

[3 marks]

Answer: \_\_\_\_\_

4

A factory produced 8,456 items last month and 5,312 items this month. (a) Estimate the difference between the two months' production by rounding each to the nearest 100. (b) Is this month's production higher or lower than last month's, and by roughly how much?

[4 marks]

Answer: \_\_\_\_\_

5

Estimate  $9,678 - 4,321$  by rounding each number to the nearest 100 first.

[3 marks]

Answer: \_\_\_\_\_

6

School A has 3,612 students and School B has 2,845 students. (a) Estimate the total number of students across both schools. (b) Estimate how many more students School A has than School B.

[4 marks]

Answer: \_\_\_\_\_

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**C****Reasoning** *explain, justify and check***/9 marks****1**

Explain why estimating by rounding first is a useful skill, even when you can calculate the exact answer.

**[2 marks]****2**

A student rounds 4,567 to the nearest 100 and gets 4,500. Explain the student's mistake and give the correct rounded value.

**[2 marks]****3**

Explain why an estimate might not exactly match the real answer, even when the rounding was done correctly.

**[2 marks]****4**

A student says that if you round both numbers up before adding, your estimate will always be bigger than the real answer. Is this true? Explain, using an example.

**[3 marks]****D****Challenge** *multi-step and problem-solving***/7 marks****1**

Two numbers round to 3,900 and 2,400 when rounded to the nearest 100. What is the smallest possible exact value each original number could have been?

**[2 marks]**

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Answer: \_\_\_\_\_

**2**

An estimate of a sum (rounded to the nearest 100) is 7,000. Give two different pairs of numbers that could produce this estimate.

**[2 marks]**

Answer: \_\_\_\_\_

**3**

A student estimates  $5,612 - 2,489$  by rounding both numbers to the nearest 1,000 instead of the nearest 100, getting  $6,000 - 2,000 = 4,000$ . Compare this to the nearest-100 estimate and the exact answer, and explain which estimate is closer to the exact answer and why.

**[3 marks]**

Answer: \_\_\_\_\_

### How did I go?

Fluency \_\_\_/16   Core \_\_\_/21   Reasoning \_\_\_/9   Challenge \_\_\_/7   **Total \_\_\_/53**

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