

Reasoning and Problem Solving

Step 9: Estimate Answers

National Curriculum Objectives:

Mathematics Year 4: (4C2) [Add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate](#)

Mathematics Year 4: (4C3) [Estimate and use inverse operations to check answers to a calculation](#)

Differentiation:

Questions 1, 4 and 7 (Reasoning)

Developing Use estimating to identify the odd one out from a choice of 3 calculations. Includes numbers up to 1,000.

Expected Use estimating to identify the odd one out from a choice of 4 calculations. Includes numbers up to 10,000.

Greater Depth Use estimating to identify the odd one out from a choice of 5 calculations. Includes numbers up to and beyond 10,000.

Questions 2, 5 and 8 (Reasoning)

Developing Explain which estimate is the most sensible. Includes numbers up to 1,000.

Expected Explain which estimate is the most sensible. Includes numbers up to 10,000.

Greater Depth Explain which estimate is the most sensible. Includes numbers up to and beyond 10,000.

Questions 3, 6 and 9 (Problem Solving)

Developing Make sensible estimates of a missing number by rounding to the nearest 10 or 100. Includes numbers up to 1,000.

Expected Make sensible estimates of a missing number by rounding to the nearest 10, 100 or 1,000. Includes numbers to 10,000.

Greater Depth Make sensible estimates of a missing number by rounding to the nearest 10, 100 or 1,000. Includes numbers up to and beyond 10,000.

More [Year 4 Addition and Subtraction](#) resources.

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Estimate Answers

1a. Look at the calculations below.

A $723 + 169$

B $717 + 165$

C $733 + 134$

Identify the odd one out.
Explain your answer.



R

Estimate Answers

1b. Look at the calculations below.

A $683 + 292$

B $783 + 348$

C $738 + 284$

Identify the odd one out.
Explain your answer.



R

2a. Dominic and Evie are estimating the answer to $308 + 188$.

Dominic



The answer
is about
400.

Evie



The answer
is about
500.

Who makes the most sensible estimate?
Explain your choice.



R

2b. Corinne and Joey are estimating the answer to $698 + 82$.

Corinne



The answer
is about
800.

Joey



The answer
is about
700.

Who makes the most sensible estimate?
Explain your choice.



R

3a. Georgie's work has been ruined by a paint splat.

$$823 + \text{[blue paint splat]} = 939$$

Estimate the missing number by rounding
to the nearest 10 and the nearest 100.



PS

3b. Minnie's work has been ruined by a paint splat.

$$\text{[yellow paint splat]} + 568 = 943$$

Estimate the missing number by rounding
to the nearest 10 and the nearest 100.



PS

Estimate Answers

4a. Look at the calculations below.

A $1,748 + 5,155$

B $1,923 + 4,895$

C $1,630 + 5,097$

D $1,599 + 4,299$

Identify the odd one out.
Explain your answer.



R

Estimate Answers

4b. Look at the calculations below.

A $4,408 + 2,155$

B $3,820 + 1,495$

C $4,399 + 2,409$

D $3,911 + 1,609$

Identify the odd one out.
Explain your answer.



R

5a. Eddie and Sita are estimating the answer to $3,678 + 1,982$.

Eddie



The answer
is about
5,700.

Sita



The answer
is about
4,000.

Who makes the most sensible estimate?
Explain your choice.



R

5b. Gina and Timmie are estimating the answer to $6,708 - 482$.

Gina



The answer
is about
5,000.

Timmie



The answer
is about
6,200.

Who makes the most sensible estimate?
Explain your choice.



R

6a. Dinah's work has been ruined by a paint splat.

$$6,139 + \text{[splat]} = 9,283$$

Estimate the missing number by rounding to the nearest 100 and the nearest 1,000.



PS

6b. Steve's work has been ruined by a paint splat.

$$8,499 - \text{[splat]} = 7,263$$

Estimate the missing number by rounding to the nearest 100 and the nearest 1,000.



PS

Estimate Answers

Estimate Answers

7a. Look at the calculations below.

A $37,748 + 8,005$

B $37,803 + 8,859$

C $38,324 + 8,697$

D $38,499 + 8,999$

E $37,745 + 9,099$

Identify the odd one out.
Explain your answer.



R

7b. Look at the calculations below.

A $10,048 + 15,005$

B $10,003 + 14,900$

C $9,824 + 14,879$

D $9,499 + 15,099$

E $9,715 + 15,334$

Identify the odd one out.
Explain your answer.



R

8a. Charlie and Leida are estimating the answer to $52,800 + 1,234$.

Charlie



Leida

The answer
is about
54,000.

The answer
is about
53,000.

Who makes the most sensible estimate?
Explain your choice.



R

8b. Max and Abbie are estimating the answer to $4,778 + 23,202$.

Max



Abbie

The answer
is about
28,000.

The answer
is about
27,000.

Who makes the most sensible estimate?
Explain your choice.



R

9a. Pete's work has been ruined by a paint splat.

$$5,819 + \text{[splat]} = 19,338$$

Estimate the missing number by rounding
to the nearest 100 and the nearest 1,000.



PS

9b. Mairi's work has been ruined by a paint splat.

$$\text{[splat]} = 23,021 + 8,443$$

Estimate the missing number by rounding
to the nearest 100 and the nearest 1,000.



PS

Reasoning and Problem Solving

Estimate Answers

Developing

- 1a. C. A and B both give an estimated answer of 890 when rounding to the nearest 10 or 900 when rounding to the nearest 100.
- 2a. Evie. She has rounded each number to the nearest 100 to work out the answer.
- 3a. Estimate to the nearest 10: 120.
Estimate to the nearest 100: 100.

Expected

- 4a. D. A, B and C give an estimated answer of 7,000 when rounded to the nearest 1,000.
- 5a. Eddie. He has rounded each number to nearest 100 to work out the answer.
- 6a. Estimate to the nearest 100: 3,200.
Estimate to the nearest 1,000: 3,000.

Greater Depth

- 7a. A, B, C, D and E give an estimated answer of 47,000 when rounded to the nearest 1,000.
- 8a. Charlie. He has rounded each number to the nearest 100 and to the nearest 1,000 to work out the answer.
- 9a. Estimate to the nearest 100: 13,500.
Estimate to the nearest 1,000: 13,000.

Reasoning and Problem Solving

Estimate Answers

Developing

- 1b. B. A and C both give an estimated answer of 1,000 when rounding to the nearest 100.
- 2b. Corinne. She has rounded each number to the nearest 100 to work out the answer.
- 3b. Estimate to the nearest 10: 370.
Estimate to the nearest 100: 300.

Expected

- 4b. B, A, C and D give an estimated answer of 6,000 when rounded to the nearest 1,000.
- 5b. Timmie. He has rounded each number to the nearest 100 to work out the answer.
- 6b. Estimate to the nearest 100: 1,200.
Estimate to the nearest 1,000: 1,000.

Greater Depth

- 7b. D, A, B, C and E give the estimated answer of 25,000 when rounded to the nearest 1,000.
- 8b. Max. He has rounded each number to the nearest 100 and to the nearest 1,000 to work out each answer.
- 9b. Estimate to the nearest 100: 31,400.
Estimate to the nearest 1,000: 31,000.