

Reasoning and Problem Solving

Step 8: Add and Subtract 100s

National Curriculum Objectives:

Mathematics Year 3: (3C1) [Add and subtract numbers mentally, including a three-digit number and hundreds](#)

Differentiation:

Questions 1, 4 and 7 (Reasoning)

Developing Match three addition and subtraction sentences to their correct answers and identify which answer is incorrect. Adding and subtracting multiples of 100 to and from 3-digit numbers within 1,000 using pictorial representations where the hundreds number is underlined.

Expected Match three addition and subtraction sentences to their correct answers and identify which answer is incorrect. Adding and subtracting multiples of 100 to and from 3-digit numbers within 1,000 using some pictorial representations.

Greater Depth Match three addition and subtraction sentences to their correct answers and identify which answer is incorrect. Adding and subtracting two multiples of 100 to and from 3-digit numbers within 1,000 using numbers, words and some mixed representations.

Questions 2, 5 and 8 (Problem Solving)

Developing Find different calculations to equal a given 3-digit number by adding and subtracting multiples of 100 to and from numbers within 1,000 using pictorial representations.

Expected Find different calculations to equal a given 3-digit number by adding and subtracting multiples of 100 to and from numbers within 1,000.

Greater Depth Find different calculations to equal a given 3-digit number by adding and subtracting two multiples of 100 to and from numbers within 1,000.

Questions 3, 6 and 9 (Problem Solving)

Developing Solve and compare calculations involving adding and subtracting multiples of 100 to and from 3-digit numbers within 1,000 using pictorial representations.

Expected Solve and compare calculations involving adding and subtracting multiples of 100 to and from 3-digit numbers within 1,000. Uses some pictorial representations.

Greater Depth Solve and compare calculations involving adding and subtracting two multiples of 100 to and from 3-digit numbers within 1,000.

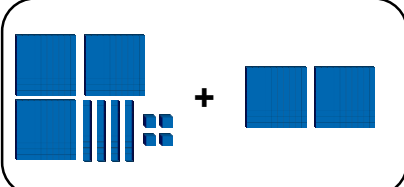

More [Year 3 Addition and Subtraction](#) resources.

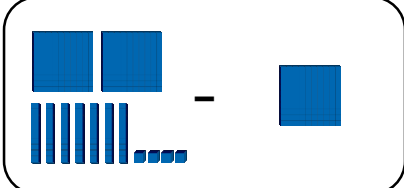

Did you like this resource? Don't forget to [review](#) it on our website.

Add and Subtract 100s

Add and subtract 100s

1a. Match the question to the correct answer. Which is the incorrect answer? Explain why.

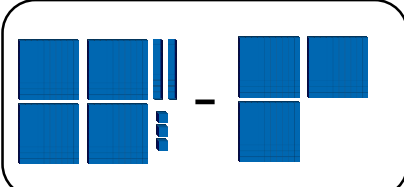
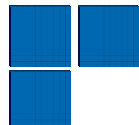
a  +  174

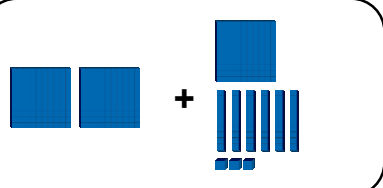

b  -  144



R

1b. Match the question to the correct answer. Which is the incorrect answer? Explain why.

a  -  363

b  +  723



R

2a. Steph is finding different calculations to make a number by adding or subtracting 100 or 200.

My number is:



Give 3 possible calculations that would give this answer.



PS

2b. Callie is finding different calculations to make a number by adding or subtracting 300 or 400.

My number is:







Give 3 possible calculations that would give this answer.



PS

3a. Solve the calculations, then add in the missing symbol using $<$, $>$ or $=$.



a.  + 200  - 200



b.  + 100  - 100



R

3b. Solve the calculations, then add in the missing symbol using $<$, $>$ or $=$.

a.  + 300  - 100

b.  + 400  - 300



R

Add and Subtract 100s

Add and subtract 100s

4a. Match the question to the correct answer. Which is the incorrect answer? Explain why.

a Add $\begin{matrix} 100 & 100 \\ 100 & 100 \end{matrix}$ to 465 388

b Subtract $\begin{matrix} 100 \\ 100 \end{matrix}$ from 298 865

c Subtract 600 from 988 198



R

4b. Match the question to the correct answer. Which is the incorrect answer? Explain why.

a Add $\begin{matrix} 100 & 100 \\ 100 & 100 \\ 100 & 100 \end{matrix}$ to 378 183

b Subtract 800 from 983 978

c Subtract $\begin{matrix} 100 & 100 \\ 100 & 100 \\ 100 \end{matrix}$ from 629 229



R

5a. Trevor is finding different calculations to make a number by adding or subtracting a multiple of 100.

My number is 526.



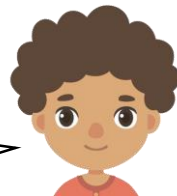
Give 3 possible calculations that would give this answer.



PS

5b. Josh is finding different calculations to make a number by adding or subtracting a multiple of 100.

My number is 875.



Give 3 possible calculations that would give this answer.



PS

6a. Solve the calculations, then add in the missing symbol using $<$, $>$ or $=$.

a. $354 + \begin{matrix} 100 \\ 100 \\ 100 \end{matrix}$ □ $845 - \begin{matrix} 100 \\ 100 \end{matrix}$

b. $295 + 500$ □ $895 - 100$

c. $543 + \begin{matrix} 100 \\ 100 \\ 100 \end{matrix}$ □ $934 - 100$



R

6b. Solve the calculations, then add in the missing symbol using $<$, $>$ or $=$.

a. $245 + 200$ □ $745 - \begin{matrix} 100 \\ 100 \\ 100 \end{matrix}$

b. $344 + 100$ □ $545 - 100$

c. $509 + \begin{matrix} 100 \\ 100 \end{matrix}$ □ $990 - 200$



R

Add and Subtract 100s

Add and subtract 100s

7a. Match the question to the correct answer. Which is the incorrect answer? Explain why.

a Add 900 to 67 then subtract 400 Eight hundred and one

b Subtract 200 from 783 then add 400 Five hundred and sixty-seven

c Subtract 800 from 901 then add 700 Eight hundred and eighty three



R

7b. Match the question to the correct answer. Which is the incorrect answer? Explain why.

a Subtract 500 from 662 then add 300 Ninety-seven

b Add 700 to 222 then subtract 600 Five hundred and sixty-two

c Add 500 to 397 then subtract 800 Three hundred and twenty-two



R

8a. Laura is finding different calculations to make a number by adding a multiple of 100 then subtracting a multiple of 100.

My number is 165.



Give 3 possible calculations that would give this answer.



PS

8b. Caius is finding different calculations to make a number by adding a multiple of 100 then subtracting a multiple of 100.

My number is 179.



Give 3 possible calculations that would give this answer.



PS

9a. Solve the calculations, then add in the missing symbol using $<$, $>$ or $=$.

a. $769 + 200 - 500$ $296 - 200 + 400$

b. $985 - 500 + 300$ $585 - 100 + 300$

c. $655 + 300 - 900$ $678 + 200 - 800$



R

9b. Solve the calculations, then add in the missing symbol using $<$, $>$ or $=$.

a. $355 - 200 + 700$ $643 - 400 + 600$

b. $702 - 500 + 700$ $877 - 700 + 500$

c. $243 + 600 - 300$ $743 - 600 + 400$



R

Reasoning and Problem Solving Add and Subtract 100s

Developing

- 1a. $b = 174$, a is incorrect; the answer is 544.
2a. Various answers, for example: $323 - 100 = 223$; $423 - 200 = 223$; $23 + 200 = 223$
3a. a. $143 + 200 > 443 - 200$
b. $344 + 100 > 444 - 100$

Expected

- 4a. $a = 865$, $c = 388$, b is incorrect; the answer is 98.
5a. Various answers, for example: $126 + 400 = 526$; $226 + 300 = 526$; $626 - 100 = 526$
6a. a. $354 + 300 > 845 - 200$
b. $295 + 500 = 895 - 100$
c. $543 + 300 > 934 - 100$

Greater Depth

- 7a. $a = 567$, $c = 801$, b is incorrect; the answer is 983.
8a. Various answers, for example: $565 + 200 - 600 = 165$; $65 + 300 - 200 = 165$; $865 + 100 - 800 = 165$
9a. a. $769 + 200 - 500 < 296 - 200 + 400$
b. $985 - 500 + 300 = 585 - 100 + 300$
c. $655 + 300 - 900 < 678 + 200 - 800$

Reasoning and Problem Solving Add and Subtract 100s

Developing

- 1b. $b = 363$, a is incorrect; the answer is 123.
2b. Various answers, for example: $824 - 300 = 524$; $924 - 400 = 524$; $124 + 400 = 524$
3b. a. $132 + 300 > 332 - 100$
b. $186 + 400 > 346 - 300$

Expected

- 4b. $a = 978$, $b = 183$, c is incorrect; the answer is 129.
5b. Various answers, for example: $175 + 700 = 875$; $575 + 300 = 875$; $975 - 100 = 875$
6b. a. $245 + 200 = 745 - 300$
b. $344 + 100 < 545 - 100$
c. $509 + 200 < 990 - 200$

Greater Depth

- 7b. $b = 322$, $c = 97$, a is incorrect; the answer is 462.
8b. Various answers, for example: $579 + 300 - 700 = 179$; $279 + 400 - 500 = 179$; $779 + 100 - 700 = 179$
9b. $355 - 200 + 700 > 643 - 400 + 600$
 $702 - 500 + 700 > 877 - 700 + 500$
 $243 + 600 - 300 = 743 - 600 + 400$