Homework/Extension
Step 7: Adding – Different Decimal Places

National Curriculum Objectives:

Mathematics Year 5: (5F10) Solve problems involving number up to 3dp.
Mathematics Year 5: (5M9a) Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)
Developing Match the calculation to the correct representation when adding different decimal places. Using tenths and hundredths with minimal exchanges.
Expected Match the calculation to the correct representation when adding different decimal places. Using tenths, hundredths and thousandths with some exchanges.
Greater Depth Match the calculation to the correct representation when adding different decimal places. Using tenths, hundredths and thousandths with multiple exchanges.

Questions 2, 5 and 8 (Varied Fluency)
Developing Decide whether a statement is true or false when adding different decimal places. Using tenths and hundredths with minimal exchanges.
Expected Decide whether a statement is true or false when adding different decimal places. Using tenths, hundredths and thousandths with some exchanges.
Greater Depth Decide whether a statement is true or false when adding different decimal places. Using tenths, hundredths and thousandths with multiple exchanges.

Questions 3, 6 and 9 (Reasoning and Problem Solving)
Developing Decide which statement is correct and explain why when adding different decimal places. Using tenths and hundredths with minimal exchanges.
Expected Decide which statement is correct and explain why when adding different decimal places. Using tenths, hundredths and thousandths with some exchanges.
Greater Depth Decide which statement is correct and explain why when adding different decimal places. Using tenths, hundredths and thousandths with multiple exchanges.

More Year 5 Decimals resources.

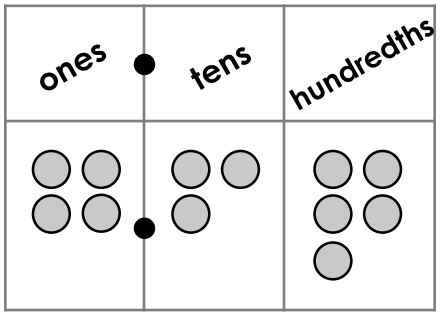
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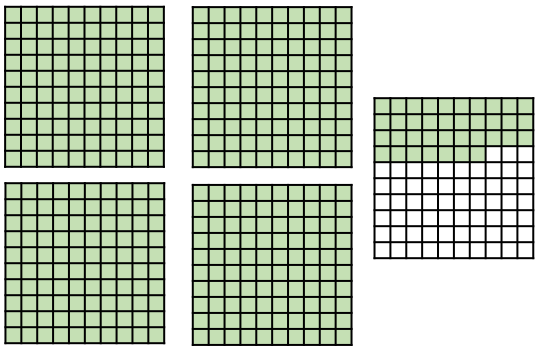
Adding – Different Decimal Places

1. Match the representation to the correct calculation.

1.



2.



3.

4.41

A. 3.19 + 1.22	B. 2.2 + 2.15	C. 1.27 + 3.1

D

VF
HW/Ext

2. Tick to show whether the statements below are true or false.

		True	False
A.	3.47 + 2.43 = 5.9	☐	☐
B.	2.17 + 3.3 = 5.2	☐	☐
C.	3.01 + 2.1 = 5.11	☐	☐

D

VF
HW/Ext

3. Ben and Sinead are calculating the following:

3.21 + 4.4



Ben

The answer is 7.25

The answer is 7.61



Sinead

Who is correct? Explain how you know.

D

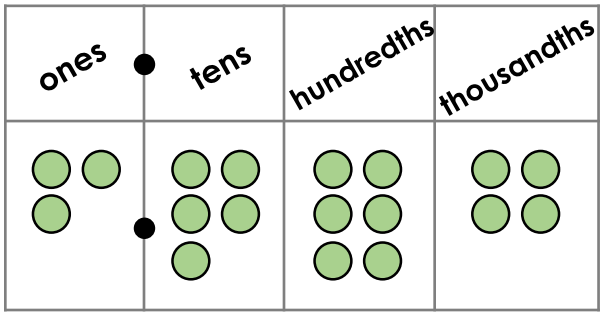
RPS
HW/Ext

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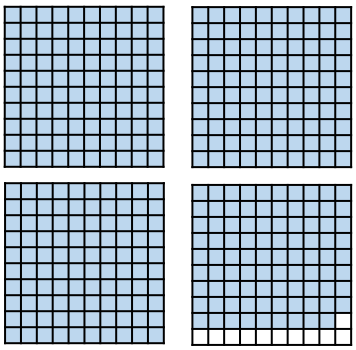
Adding – Different Decimal Places

4. Match the representation to the correct calculation.

1.



2.



3.

2.466

A. 1.32 + 2.57	B. 1.034 + 2.53	C. 1.45 + 1.016

VF
HW/Ext

5. Tick to show whether the statements below are true or false.

		True	False
A.	5.029 + 0.1 = 5.129	☐	☐
B.	2.17 + 0.3 = 2.2	☐	☐
C.	4.312 + 1.09 = 5.311	☐	☐

VF
HW/Ext

6. Steph and Sean are calculating the following:

3.054 + 2.3



Steph: The answer is 5.057

Sean: The answer is 5.354



Who is correct? Explain how you know.

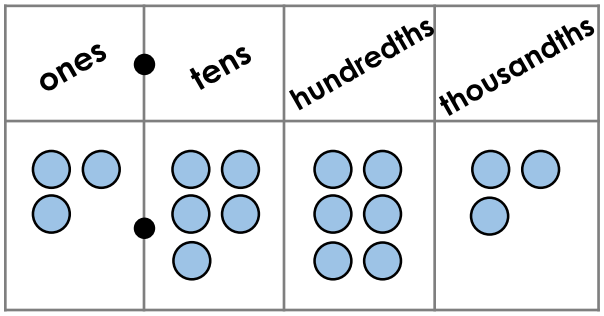
RPS
HW/Ext

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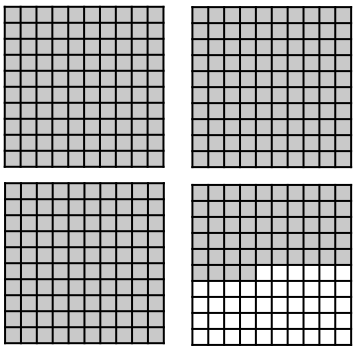
Adding – Different Decimal Places

7. Match the representation to the correct calculation.

1.



2.



3.

3.054

A. 0.67 + 2.893	B. 2.953 + 0.101	C. 0.991 + 2.549

VF
HW/Ext

8. Tick to show whether the statements below are true or false.

		True	False
A.	4.392 + 0.97 = 5.362	☐	☐
B.	2.007 + 1.98 = 3.987	☐	☐
C.	4.39 + 1.091 = 6.3	☐	☐

VF
HW/Ext

9. Chuan and Hafsa are calculating the following:

2.109 + 3.18



Chuan: "The answer is 5.127"

Hafsa: "The answer is 5.289"



Who is correct? Explain how you know.

RPS
HW/Ext

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Homework/Extension
Adding – Different Decimal Places

Developing

1. 1 = B, 2 = C, 3 = A
2. A is true; B is false, the answer is 5.47; C is true.
3. Sinead is correct. Ben has added the 4 in the thousandths column instead of the tenths column.

Expected

4. 1 = B, 2 = A, 3 = C
5. A is true; B is false, the answer is 2.47; C is false, the answer is 5.402.
6. Sean is correct. Steph has added the 3 in the thousandths column instead of the tenths column.

Greater Depth

7. 1 = A, 2 = C, 3 = B
8. A is true; B is true; C is false, the answer is 5.481.
9. Hafsa is correct. Chuan has added the 1 in the hundredths column instead of the tenths column and the 8 in the thousandths column instead of the hundredths column.

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