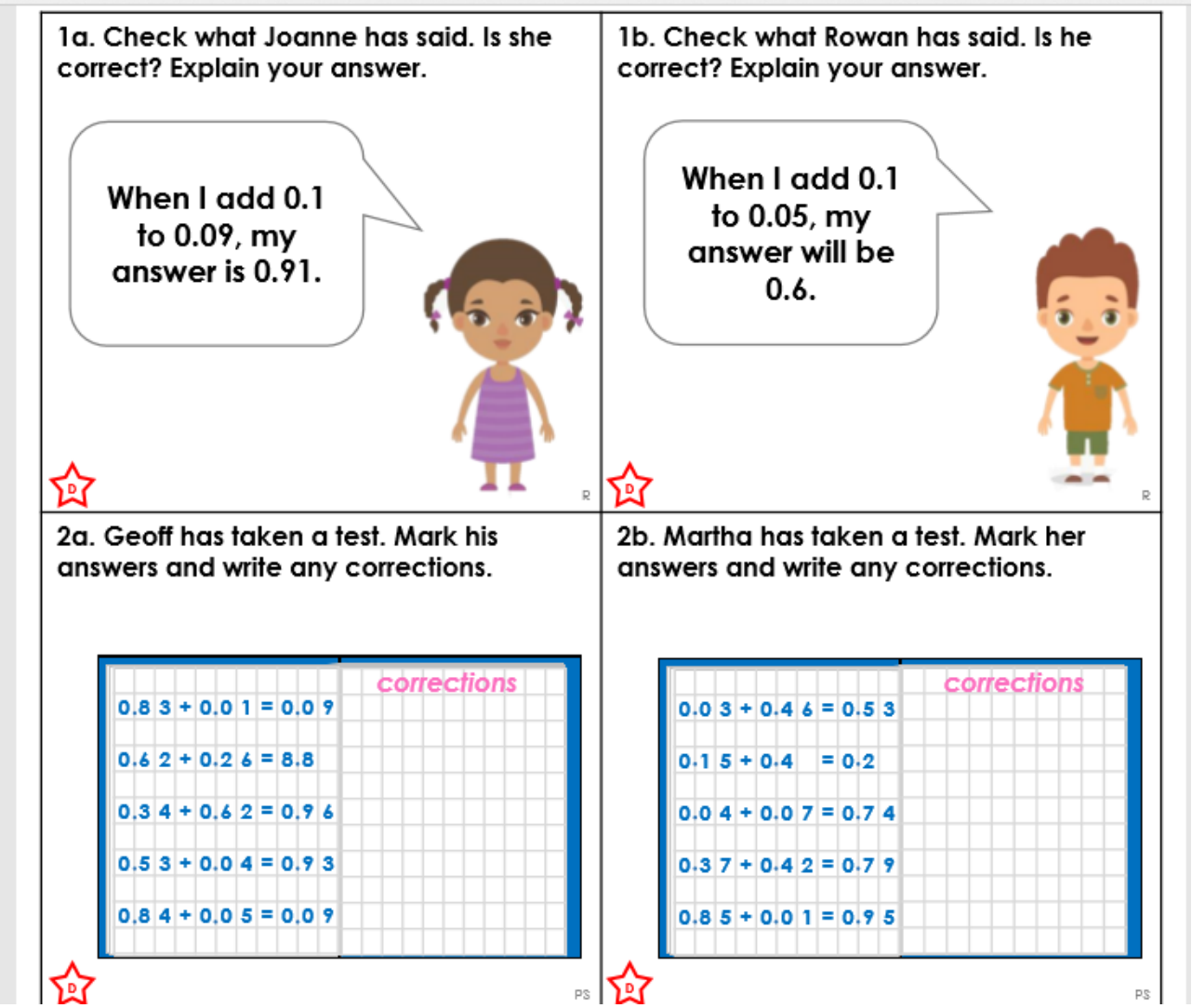
Friday 15th May. Y5

Reasoning and Problem Solving Step 1: Adding Decimals Within one

The questions in your mini-test today will help you to assess your understanding. There are particular developing questions. If you get the right answers here you have begun to understand the concept.

If you get expected level answers right, then you have a secure understanding.

If you are correct on greater depth questions then you are achieving a higher than age-expected level of understanding. See how you do!



3a. Which digits from 5 to 9 could you put in the empty spaces to make this statement correct?

$0.63 + 0.2\square = 0.8\square$

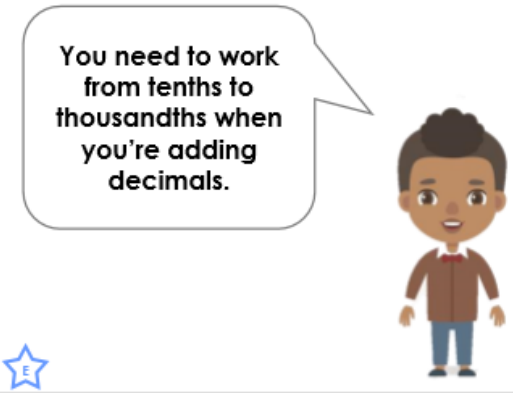
D PS

3b. Which digits from 0 to 5 could you put in the empty spaces to make this statement correct?

$0.23 + 0.\square 4 = 0.\square 7$

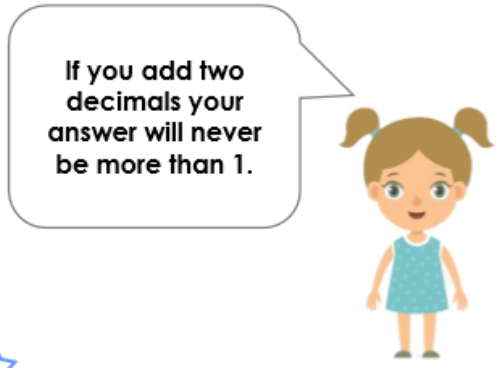
D PS

4a. Check what Henri has said. Is he correct? Explain your answer.



E R

4b. Check what Grace has said. Is she correct? Explain your answer.



E R

5a. Evie has taken a test. Mark her answers and write any corrections.

	corrections
0.132 + 0.828 = 0.951	
0.703 + 0.07 = 0.71	
0.824 + 0.011 = 0.835	
0.351 + 0.039 = 0.381	
0.646 + 0.341 = 0.987	

E PS

5b. Martha has taken a test. Mark her answers and write any corrections.

	corrections
0.971 + 0.009 = 0.98	
0.76 + 0.073 = 1.49	
0.748 + 0.143 = 0.881	
0.628 + 0.304 = 0.912	
0.205 + 0.198 = 0.303	

E PS

6a. Which digits could you put in the empty spaces to make these statements correct?

$0.454 + 0.2\square = 0.7\square 4$

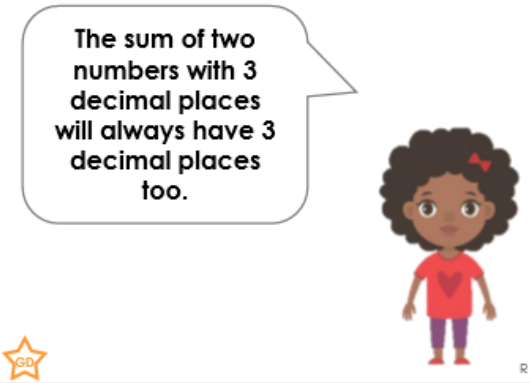
$0.19\square + 0.2\square = 0.451$

6b. Which digits could you put in the empty spaces to make these statements correct?

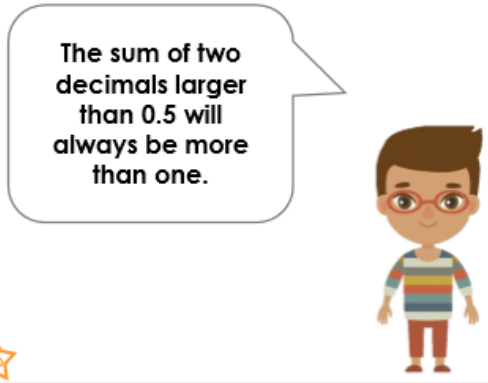
$0.133 + 0.2\square = 0.4\square 3$

$0.7\square + 0.28\square = 0.999$

7a. Check what Amanya has said. Is she correct? If not, why not?



7b. Check what Danny has said. Is she correct? If not, why not?

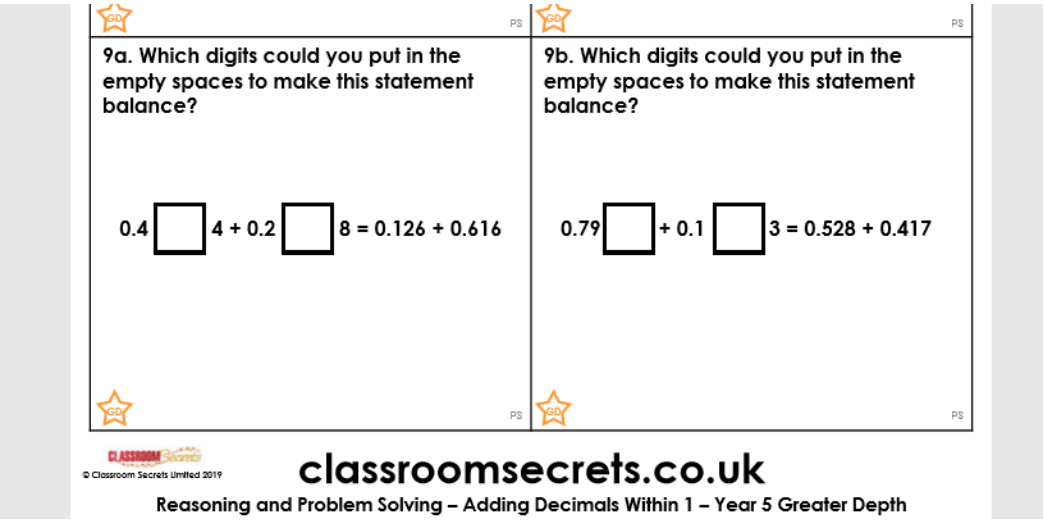


8a. Martin has taken a test. Mark his answers and write any corrections.

	corrections
0.548 + 0.354 = 0.902	
0.003 + 0.879 = 0.909	
0.172 + 0.336 = 0.409	
0.626 + 0.275 = 0.901	
0.743 + 0.198 = 0.931	

8b. Leah has taken a test. Mark her answers and write any corrections.

	corrections
0.484 + 0.159 = 0.534	
0.263 + 0.009 = 0.272	
0.152 + 0.709 = 0.811	
0.621 + 0.178 = 0.899	
0.15 + 0.029 = 0.044	



Now scroll down

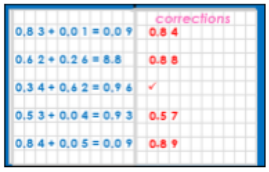
For answers...

ANSWERS

Developing

1a. Joanne is incorrect. She has added the two digits but not realised the 9 is 9 hundredths and the 1 is 1 tenth so the answer should be 0.19.

2a.

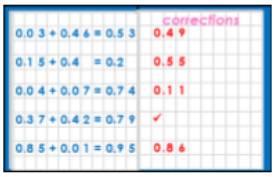


3a. 5,8; 6,9

Developing

1b. Rowan is incorrect. He has added the two digits but not realised that the 5 is 5 hundredths and the 1 is 1 tenth so the answer should be 0.15.

2b.

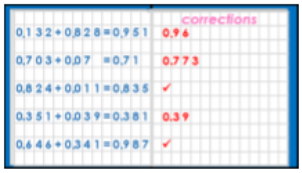


3b. 0,2; 1,3; 2,4; 3,5; 4,6; 5,7

Expected

4a. Henri is incorrect. You work from the right to left, adding thousandths first, then hundredths and then tenths.

5a.

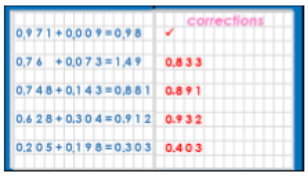


6a. 5,0; 6,1; 7,2; 8,3; 9,4 and 1,6

Expected

4b. Grace is incorrect. If the value in the tenths column is greater than 9, then you need to exchange and carry over into the ones column, so your answer would be 1 or more.

5b.

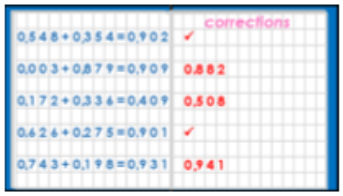


6b. 7,0; 8,1; 9,2 and 1,9

Greater Depth

7a. Amaya is incorrect. If the sum of the thousandths digits is equal to 10 thousandths, then this would be exchanged for 1 hundredth and there would be no need for the 0 (place holder) in the thousandths column if both numbers were 3 decimal places. Therefore the answer would have two decimal places.

8a.

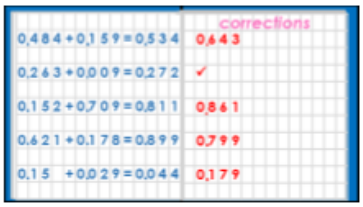


9a. 4,9; 5,8; 6,7; 7,6; 8,5; 9,4

Greater Depth

7b. Danny is correct. This is because the sum of 0.5 + 0.5 = 1 so if we increase either of the numbers, even by one thousandth, the number will always be larger than 1. For example: 0.5 + 0.5001 = 1.001

8b.



9b. 2,5