Adding Decimals Within 1

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1a. Check what Joanne has said. Is she correct? Explain your answer.

When I add 0.1 to 0.09, my answer is 0.91.

1b. Check what Rowan has said. Is he correct? Explain your answer.
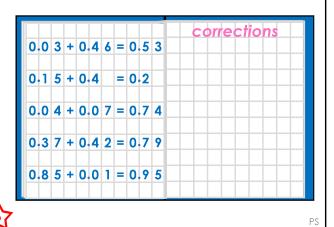
When I add 0.1 to 0.05, my answer will be 0.6.

2a. Geoff has taken a test. Mark his answers and write any corrections.

corrections

0.83 + 0.01 = 0.09

0.62 + 0.26 = 8.8

0.34 + 0.62 = 0.96

0.53 + 0.04 = 0.93

0.84 + 0.05 = 0.09

2b. Martha has taken a test. Mark her answers and write any corrections.

corrections

0.03 + 0.46 = 0.53

0.15 + 0.4 = 0.2

0.04 + 0.07 = 0.74

0.37 + 0.42 = 0.79

0.85 + 0.01 = 0.95

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

$0.63 + 0.2\boxed{} = 0.8\boxed{}$

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

$0.23 + 0.\boxed{}4 = 0.\boxed{}7$

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

> You need to work from tenths to thousandths when you're adding decimals.
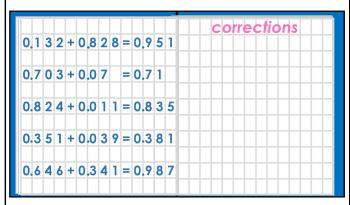
4b. Check what Grace has said. Is she correct? Explain your answer.

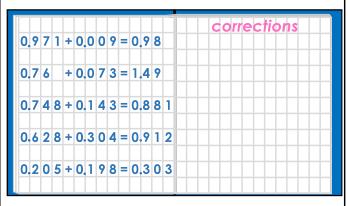> If you add two decimals your answer will never be more than 1.

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

corrections

$0.132 + 0.828 = 0.951$

$0.703 + 0.07 = 0.71$

$0.824 + 0.011 = 0.835$

$0.351 + 0.039 = 0.381$

$0.646 + 0.341 = 0.987$

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

corrections

$0.971 + 0.009 = 0.98$

$0.76 + 0.073 = 1.49$

$0.748 + 0.143 = 0.881$

$0.628 + 0.304 = 0.912$

$0.205 + 0.198 = 0.303$

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

$$0.454 + 0.2\boxed{} = 0.7\boxed{}4$$

$$0.19\boxed{} + 0.2\boxed{} = 0.451$$

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

$$0.133 + 0.2\boxed{} = 0.4\boxed{}3$$

$$0.7\boxed{} + 0.28\boxed{} = 0.999$$

Adding Decimals Within 1

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

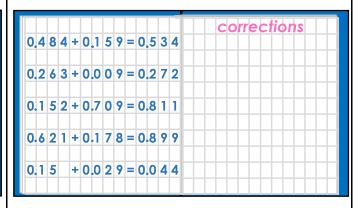> The sum of two numbers with 3 decimal places will always have 3 decimal places too.

GD

R

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

> The sum of two decimals larger than 0.5 will always be more than one.

GD

R

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

GD

PS

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

GD

PS

9a. Which digits could you put in the empty spaces to make this statement balance?

$$0.4 \boxed{} 4 + 0.2 \boxed{} 8 = 0.126 + 0.616$$

GD

PS

9b. Which digits could you put in the empty spaces to make this statement balance?

$$0.79 \boxed{} + 0.1 \boxed{} 3 = 0.528 + 0.417$$

GD

PS

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Reasoning and Problem Solving – Adding Decimals Within 1 – Year 5 Greater Depth