

Bronze

1a. What number do these counters represent?



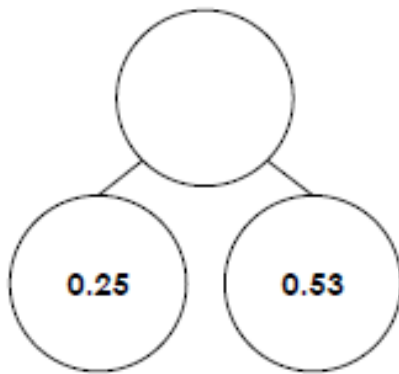
Add one more tenth.

If you then add another 0.07, what number would you have?



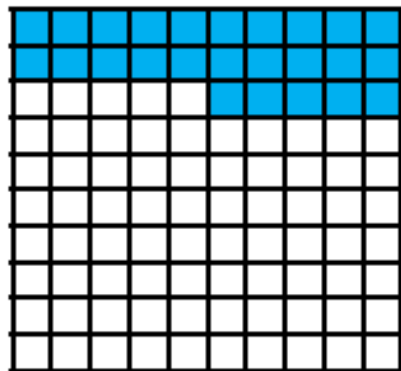
VF

2a. Complete the part whole model.



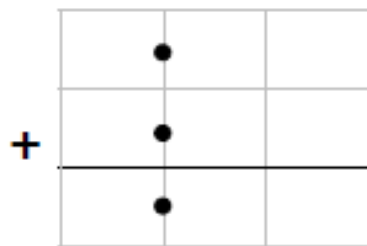
VF

3a. Use the square to add 2 hundredths. What is your answer?



VF

4a. True or false? $0.52 + 0.02 = 7.24$



VF

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.



R

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

	corrections
$0.03 + 0.46 = 0.53$	
$0.15 + 0.4 = 0.2$	
$0.04 + 0.07 = 0.74$	
$0.37 + 0.42 = 0.79$	
$0.85 + 0.01 = 0.95$	

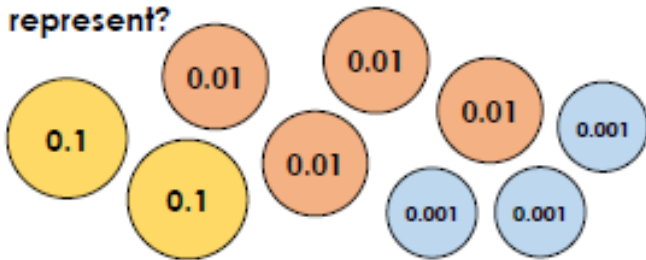


PS

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

$$0.23 + 0.\square4 = 0.\square7$$

5a. What number do these counters represent?



Add one hundredth more.

If you then add another 0.004, what number would you have?



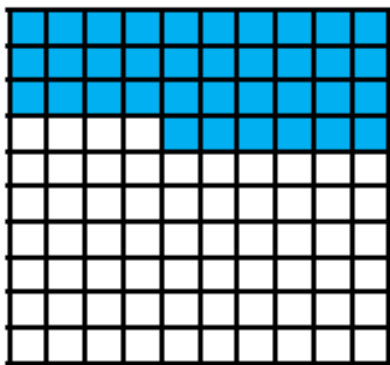
VF

6a. Complete the part whole model.



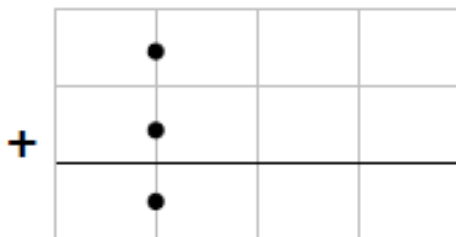
VF

7a. Use the square to add 4 tenths and 5 hundredths. What is your answer?



VF

8a. True or false? $0.906 + 0.025 = 0.931$



VF

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.



R

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

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



PS

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

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

$$0.7 \square + 0.28 \square = 0.999$$

Gold

9a. What number do these counters represent?



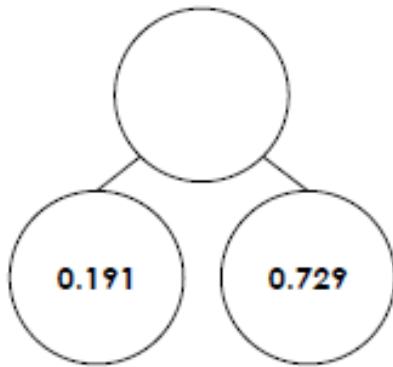
Add on three hundredths.

If you then add another 0.154, what number would you have?



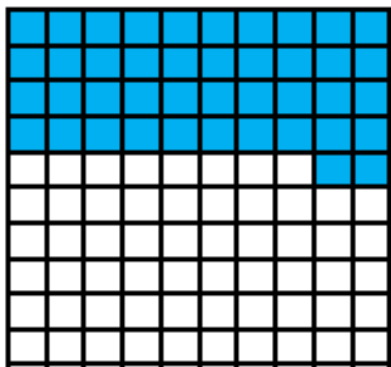
VF

10a. Complete the part whole model.



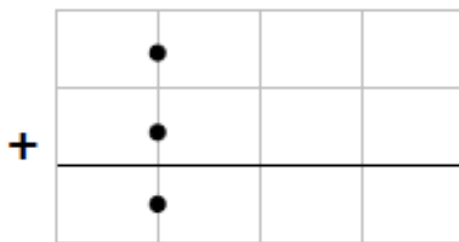
VF

11a. Use the square to add 4 tenths, 9 hundredths. What is your answer?



VF

12a. True or false? $0.134 + 0.789 = 0.113$



VF

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.



R

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

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



PS

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

$$0.79 \square + 0.1 \square 3 = 0.528 + 0.417$$

Challenge

1. Two factories produce chocolate biscuits. Their output for the year is listed below. Complete the missing values in the table.

	Factory 1	Factory 2
April – June	0.345m	278,000
July – September	197,000	0.113m
October – December	143,000	178,000
January – March	0.224m	0.419m
Total	m	m

What questions can you ask about this information? Find the answers to your questions in decimals.

2. If the calculation below includes one exchange, how many counters do you need to complete it? How many different ways can you complete it?

If the calculation below includes two exchanges, how many counters do you need to complete it? How many different ways can you complete it?

	Ones	tenths	hundredths	thousandths
		•		
+		•		
		•	•••	••••