

# Varied Fluency

## Step 1: Adding Decimals Within 1

### 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:

**Developing** Questions to support adding decimals within 1 using hundredths and tenths, no exchanges.

**Expected** Questions to support adding decimals within 1 using thousandths, hundredths and tenths, with exchanges.

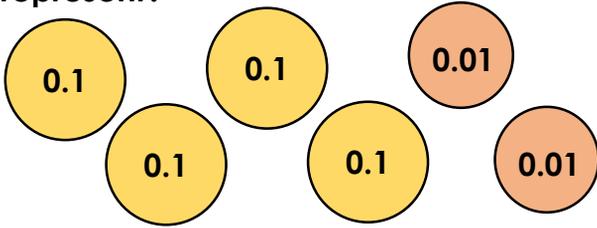
**Greater Depth** Questions to support adding decimals within 1 using thousandths, hundredths and tenths with multiple exchanges per question.

More [Year 5 Decimals](#) resources.

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

## Adding Decimals Within 1

1a. What number do these counters represent?



Add one more tenth.

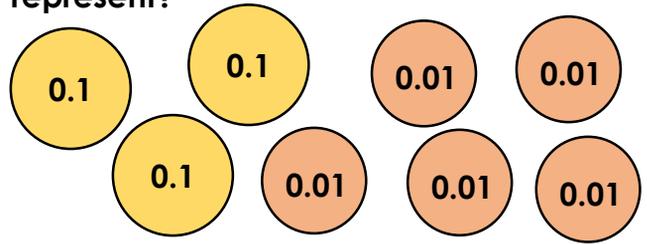
If you then add another 0.07, what number would you have?



VF

## Adding Decimals Within 1

1b. What number do these counters represent?



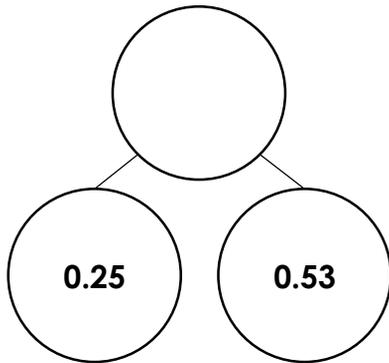
Add one more tenth.

If you then add 0.03, what number would you have?



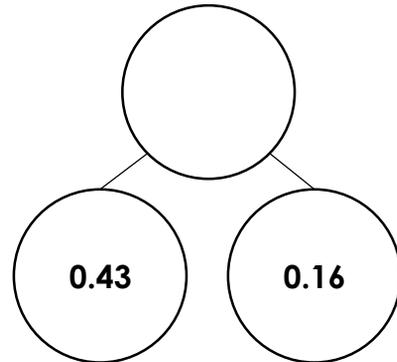
VF

2a. Complete the part whole model.



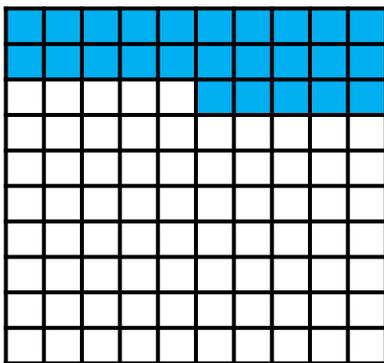
VF

2b. Complete the part whole model.



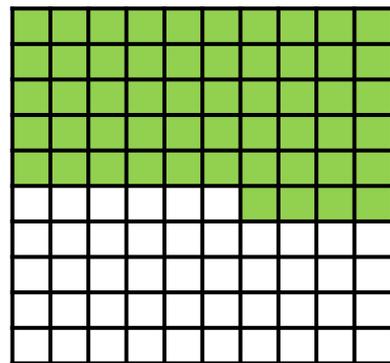
VF

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



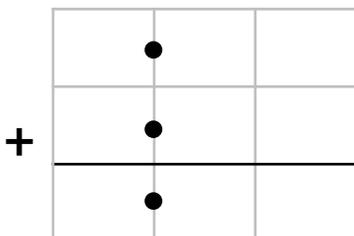
VF

3b. Use the square to add 7 hundredths. What is your answer?



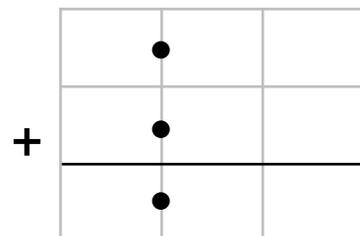
VF

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



VF

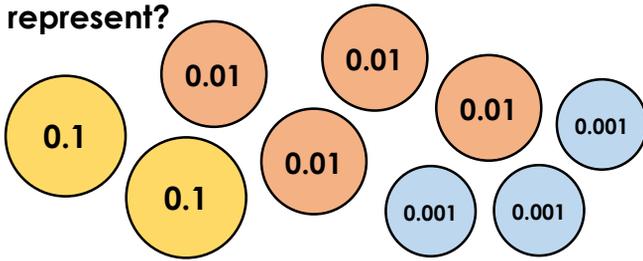
4b. True or false?  $0.05 + 0.91 = 0.96$



VF

## Adding Decimals Within 1

5a. What number do these counters represent?



Add one hundredth more.

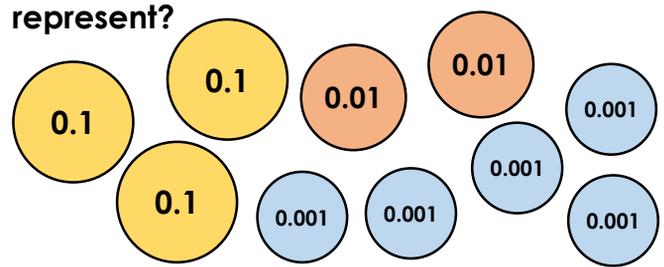
If you then add another 0.004, what number would you have?



VF

## Adding Decimals Within 1

5b. What number do these counters represent?



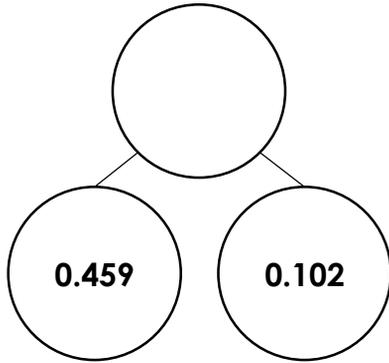
Add one hundredth more.

If you then add another 0.003, what number would you have?



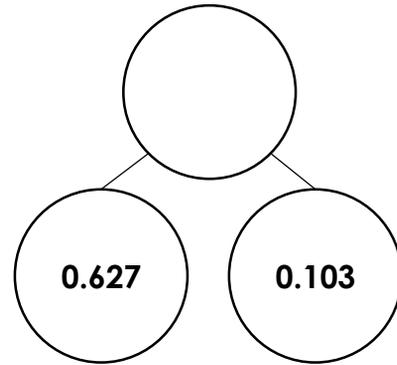
VF

6a. Complete the part whole model.



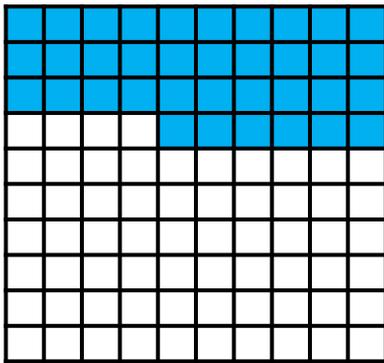
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6b. Complete the part whole model.



VF

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



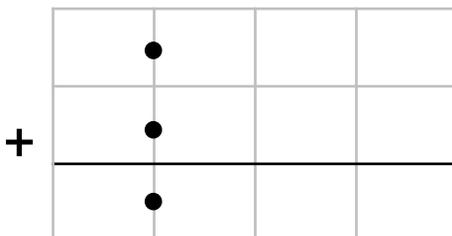
VF

7b. Use the square to add 7 tenths and 3 hundredths. What is your answer?



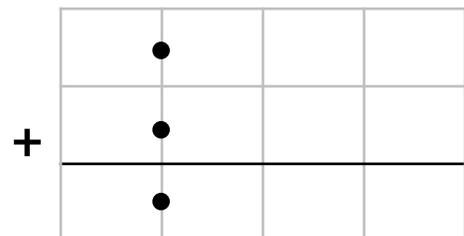
VF

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



VF

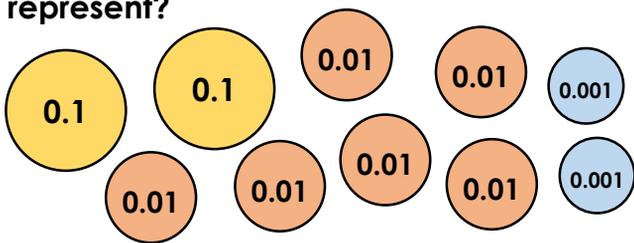
8b. True or false?  $0.034 + 0.856 = 0.884$



VF

## Adding Decimals Within 1

9a. What number do these counters represent?



Add on three hundredths.

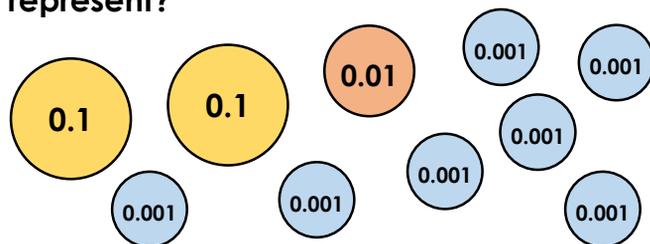
If you then add another 0.154, what number would you have?



VF

## Adding Decimals Within 1

9b. What number do these counters represent?



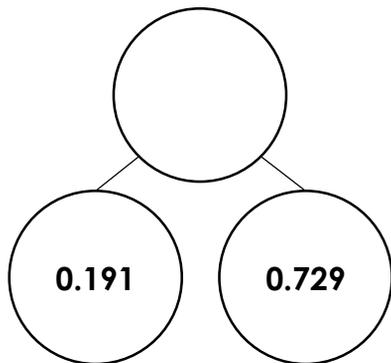
Add on nine hundredths more.

If you then add another 0.058, what number would you have?



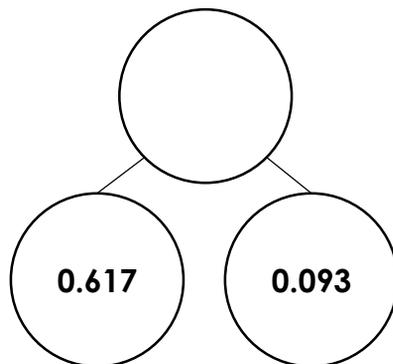
VF

10a. Complete the part whole model.



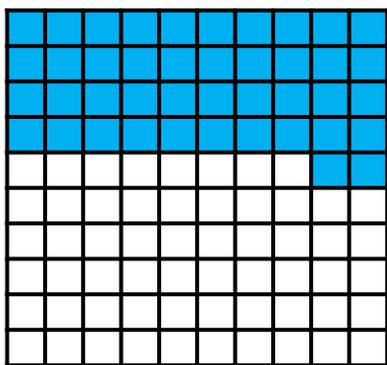
VF

10b. Complete the part whole model.



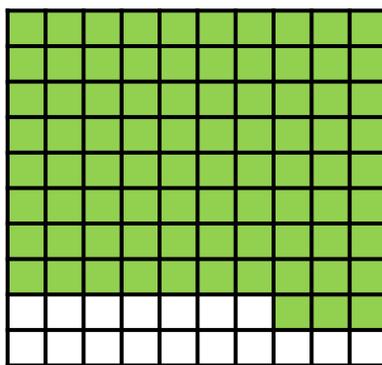
VF

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



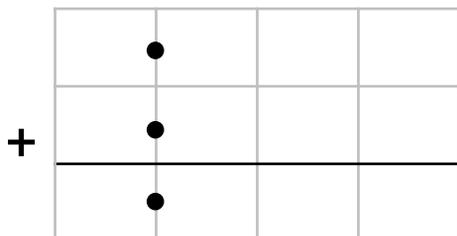
VF

11b. Use the square to add eleven hundredths. What is your answer?



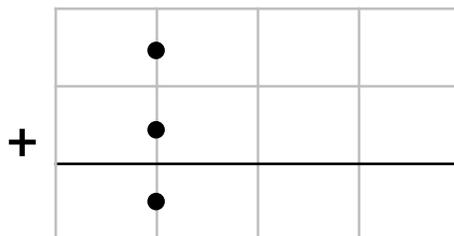
VF

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



VF

12b. True or false?  $0.604 + 0.298 = 0.902$



VF

**Varied Fluency**  
**Adding Decimals Within 1**

**Developing**

1a. **0.42; 0.59**

2a. **0.78**

3a.  **$0.25 + 0.002 = 0.27$**

4a. **False;  $0.52 + 0.02 = 0.54$**

**Expected**

5a. **0.243; 0.257**

6a. **0.561**

7a.  **$0.36 + 0.45 = 0.81$**

8a. **True**

**Greater Depth**

9a. **0.262; 0.446**

10a. **0.92**

11a.  **$0.42 + 0.49 = 0.91$**

12a. **False;  $0.134 + 0.789 = 0.923$**

**Varied Fluency**  
**Adding Decimals Within 1**

**Developing**

1b. **0.35; 0.48**

2b. **0.59**

3b.  **$0.54 + 0.07 = 0.61$**

4b. **True**

**Expected**

5b. **0.325; 0.338**

6b. **0.73**

7b.  **$0.17 + 0.73 = 0.9$**

8b. **False;  $0.034 + 0.856 = 0.89$**

**Greater Depth**

9b. **0.217; 0.365**

10b. **0.71**

11b.  **$0.83 + 0.11 = 0.94$**

12b. **True**