

# Varied Fluency

## Step 5: Adding – Same 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:

**Developing** Questions to support adding decimals with same decimal places involving tenths and hundredths, with no exchanges.

**Expected** Questions to support adding decimals with same decimal places involving ones, tenths and hundredths, with single exchanges.

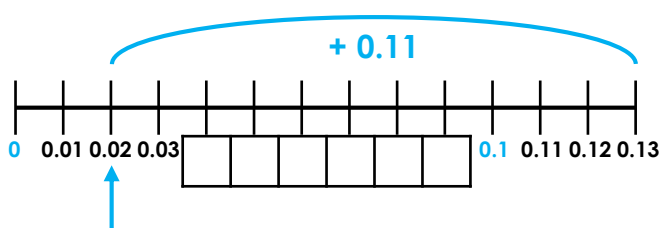
**Greater Depth** Questions to support adding decimals with same decimal places involving tens, ones, tenths, hundredths, with multiple exchanges.

More [Year 5 Decimals](#) resources.

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

## Adding – Same Decimal Places

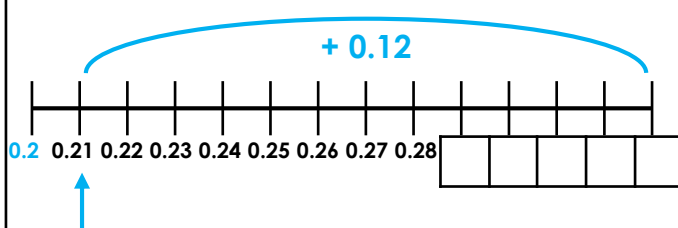
1a. Write the missing decimals on the number line. What is the corresponding calculation?



VF

## Adding – Same Decimal Places

1b. Write the missing decimals on the number line. What is the corresponding calculation?



VF

2a. Look at the place value chart below.

Ones	tenths	hundredths

What number is represented?

Add 8 tenths.

Now add 3 hundredths more.

Use your calculations to add 0.83 to the number in the place value chart.



VF

2b. Look at the place value chart below.

Ones	tenths	hundredths

What number is represented?

Add 5 tenths.

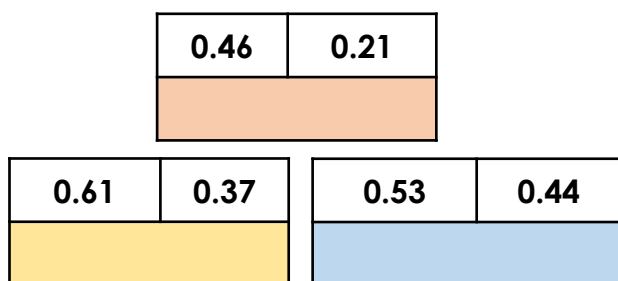
Now add 4 hundredths more.

Use your calculations to add 0.54 to the number in the place value chart.



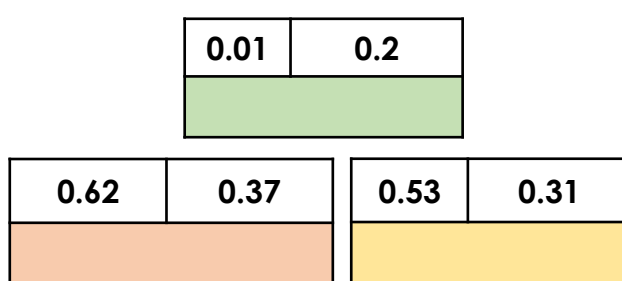
VF

3a. Find the missing numbers to complete the bar models.



VF

3b. Find the missing numbers to complete the bar models.



VF

4a. Underline the true statements.

A)  $0.34 + 0.63 > 0.73 + 0.21$

B)  $0.65 + 0.34 < 0.78 + 0.11$



VF

4b. Underline the false statements.

A)  $0.07 + 0.12 > 0.02 + 0.77$

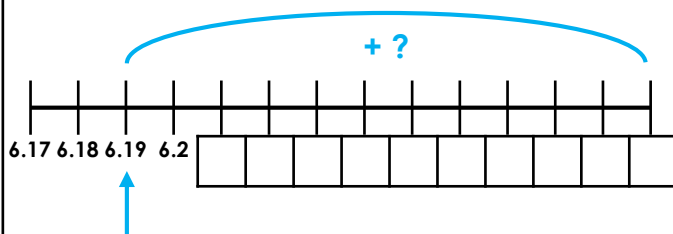
B)  $0.34 + 0.21 > 0.76 + 0.21$



VF

## Adding – Same Decimal Places

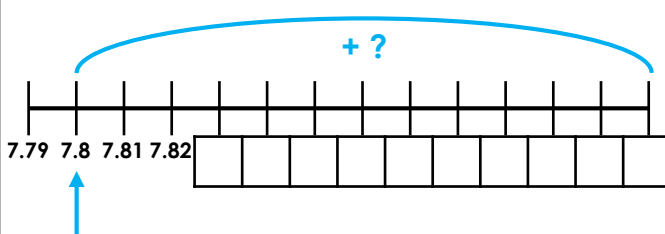
5a. Write the missing decimals on the number line. What is the corresponding calculation?



VF

## Adding – Same Decimal Places

5b. Write the missing decimals on the number line. What is the corresponding calculation?



VF

6a. Look at the place value chart below.

Ones	tenths	hundredths

What number is represented?

Add 5 hundredths.

Now add 6 hundredths more.

Use your calculations to add 0.56 to the number in the place value chart.



VF

6b. Look at the place value chart below.

Ones	tenths	hundredths

What number is represented?

Add 8 tenths.

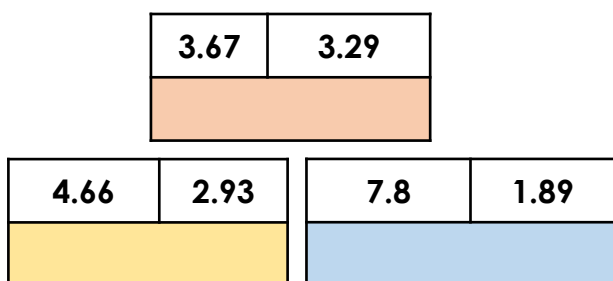
Now add 3 hundredths more

Use your calculations to add 0.83 to the number in the place value chart.



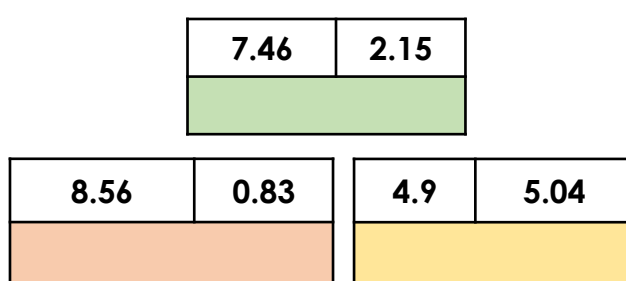
VF

7a. Find the missing numbers to complete the bar models.



VF

7b. Find the missing numbers to complete the bar models.



VF

8a. Underline the true statements.

A)  $8.04 + 1.88 > 7.54 + 2.9$

B)  $3.06 + 4.76 < 2.92 + 5.21$

C)  $2.7 + 4.85 < 5.34 + 1.95$



VF

8b. Underline the false statements.

A)  $2.17 + 1.8 > 3.9 + 1.02$

B)  $2.68 + 5.26 < 4.09 + 3.11$

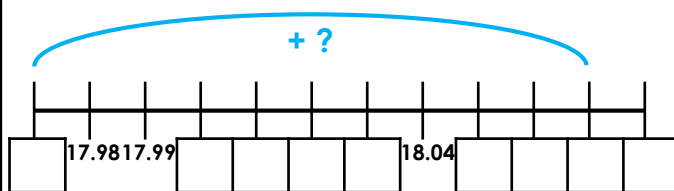
C)  $2.95 + 6.54 < 8.21 + 0.97$



VF

## Adding – Same Decimal Places

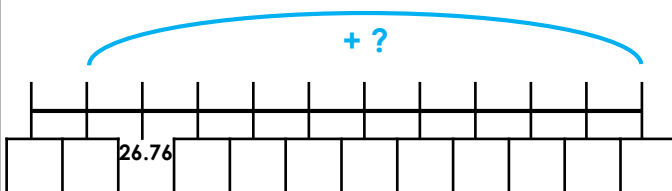
9a. Write the missing decimals on the number line. What is the corresponding calculation?



VF

## Adding – Same Decimal Places

9b. Write the missing decimals on the number line. What is the corresponding calculation?



VF

10a. Look at the place value chart below.

Tens	Ones	tenths	hundredths

What number is represented?

Add 9 ones.

Now add 4 hundredths more.

Use your calculations to add 9.44 to the number in the place value chart.



VF

10b. Look at the place value chart below.

Tens	Ones	tenths	hundredths

What number is represented?

Add 8 tenths.

Now add 7 hundredths more.

Use your calculations to add 5.87 to the number in the place value chart.



VF

11a. Find the missing numbers to complete the bar models.

59.98	25.87

30.45	39.62	85.42	5.67



VF

11b. Find the missing numbers to complete the bar models.

10.59	89.11

72.15	0.97	81.09	8.99



VF

12a. Underline the true statements.

- A)  $3.62 + 29.62 > 28.83 + 2.29$
- B)  $39.45 + 17.83 < 38.32 + 18.76$
- C)  $75.38 + 20.1 < 73.21 + 18.03$
- D)  $61.3 + 31.69 < 64.01 + 29.99$



VF

12b. Underline the false statements.

- A)  $2.65 + 13.5 < 9.43 + 6.87$
- B)  $1.49 + 29.85 > 0.93 + 29.6$
- C)  $83.08 + 9.89 > 84.37 + 7.96$
- D)  $40.79 + 52.34 < 32.96 + 60.05$



VF

**Varied Fluency**  
**Adding – Same Decimal Places**

**Developing**

- 1a. 0.04, 0.05, 0.06, 0.07, 0.08, 0.09  
 $0.02 + 0.11 = 0.13$   
2a. 0.12; 0.92; 0.95; 0.95  
3a. 0.67; 0.98; 0.97  
4a. A only

**Expected**

- 5a. 6.21, 6.22, 6.23, 6.24, 6.25, 6.26, 6.27, 6.28, 6.29, 6.3  
 $6.19 + 0.11 = 6.3$   
6a. 3.32; 3.37; 3.43; 3.43  
7a. 6.96; 7.59; 9.69  
8a. B only

**Greater Depth**

- 9a. 17.97, 18, 18.01, 18.02, 18.03, 18.05, 18.06, 18.07, 18.08  
 $17.97 + 0.1 = 18.07$   
10a. 34.26; 43.26; 43.3; 43.7  
11a. 85.85; 70.07; 91.09  
12a. A and D

**Varied Fluency**  
**Adding – Same Decimal Places**

**Developing**

- 1b. 0.29, 0.3, 0.31, 0.32, 0.33  
 $0.21 + 0.12 = 0.33$   
2b. 0.24; 0.74; 0.78; 0.78  
3b. 0.21; 0.99; 0.84  
4b. A and B

**Expected**

- 5b. 7.83, 7.84, 7.85, 7.86, 7.87, 7.88, 7.89, 7.9, 7.91, 7.92  
 $7.8 + 0.12 = 7.92$   
6b. 4.56; 5.36; 5.39; 5.39  
7b. 9.61; 9.39; 9.94  
8b. B and C

**Greater Depth**

- 9b. 26.74, 26.75, 26.77, 26.78, 26.79, 26.8, 26.81, 26.82, 26.83, 26.84, 26.85  
 $26.75 + 0.1 = 26.85$   
10b. 40.87; 41.67; 41.74; 46.74  
11b. 99.7; 73.12; 90.08  
12b. D only