Homework
Subtracting Decimals within 1

National Curriculum Objectives:

Mathematics Year 5: (5F10) Solve problems involving number up to three decimal places
Mathematics Year 5: (5M9a) Use all four operations to solve problems involving measure [for example, money] using decimal notation, including scaling

Differentiation:

Questions 1, 4 and 7 (Varied Fluency)
Developing Complete the part whole model. Subtracting decimals within 1 using hundredths and tenths, no exchanges.
Expected Complete the part whole model. Subtracting decimals within 1 using thousandths, hundredths and tenths, with exchanges.
Greater Depth Complete the part whole model. Subtracting decimals within 1 using thousandths, hundredths and tenths with multiple exchanges per question.

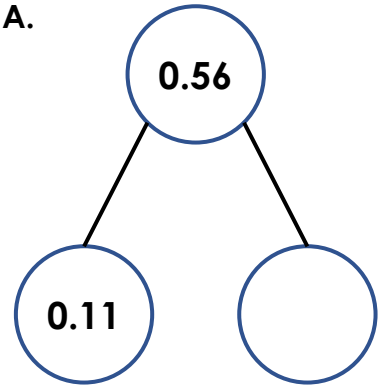
Questions 2, 5 and 8 (Varied Fluency)
Developing Complete the number sentences. Subtracting decimals within 1 using hundredths and tenths, no exchanges.
Expected Complete the number sentences. Subtracting decimals within 1 using thousandths, hundredths and tenths, with exchanges.
Greater Depth Complete the number sentences. Subtracting decimals within 1 using thousandths, hundredths and tenths with multiple exchanges per question.

Questions 3, 6 and 9 (Reasoning and Problem Solving)
Developing Provide possible distances for a given total within 1. One distance will be provided. Subtracting decimals within 1 using hundredths and tenths, no exchanges.
Expected Provide possible distances for a given total within 1. Subtracting decimals within 1 using thousandths, hundredths and tenths, no crossing columns.
Greater Depth Provide possible distances for a given total within 1 where two distances will need to add up to a given number. Subtracting decimals within 1 using thousandths, hundredths and tenths with multiple exchanges per question.

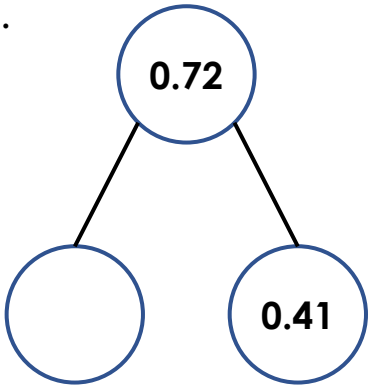
Subtracting Decimals within 1

1. Complete the part whole models below.

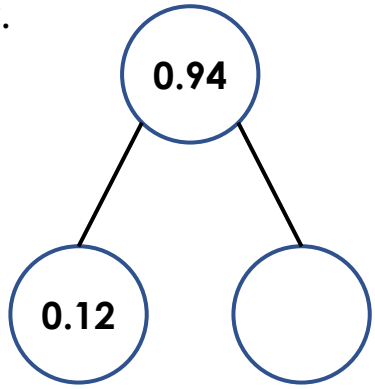
A.



B.



C.



D

VF
HW/Ext

2. Use the inverse operation to complete the number sentences below.

A. 0.□□ + 0. 2 1 = 0. 8 5

B. 0. 7 4 + 0.□□ = 0. 9 8

C. 0.□□ + 0. 6 5 = 0. 7 9

D. 0. 5 4 + 0.□□ = 0. 9 6

E. 0.□□ + 0. 6 4 = 0. 8 9

D

VF
HW/Ext

3. Three children run a total distance of 0.98 miles. Write 5 possible distances that each child could have run. One child's distance is given to you each time.

	George	John	Abigail
Possible Distance 1	0.22		
Possible Distance 2	0.41		
Possible Distance 3		0.24	
Possible Distance 4		0.36	
Possible Distance 5			0.15

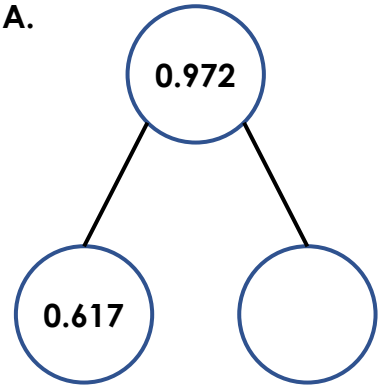
D

RPS
HW/Ext

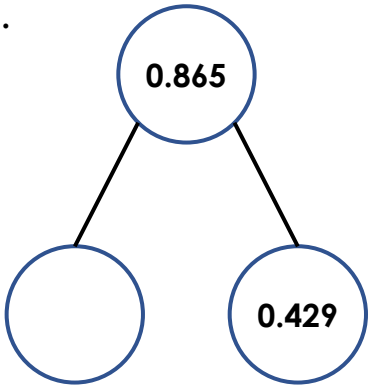
Subtracting Decimals within 1

4. Complete the part whole models below.

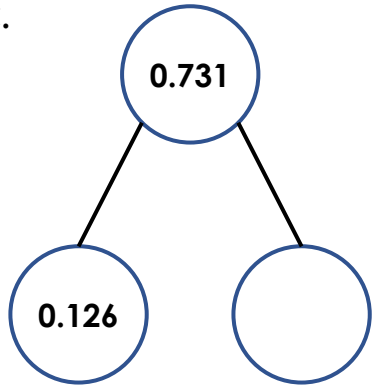
A.



B.



C.



E

VF
HW/Ext

5. Use the inverse operation to complete the number sentences below.

A. 0.□□□ + 0. 0 2 = 0. 6 1 3

B. 0. 7 2 5 + 0.□□□ = 0. 9 4 2

C. 0.□□□ + 0. 7 7 = 0. 9 6 5

D. 0. 5 4 6 + 0.□□□ = 0. 8 7 5

E. 0.□□□ + 0. 4 1 9 = 0. 9 9 2

E

VF
HW/Ext

6. Three children run a total distance of 0.981 miles. Write 5 possible distances that each child could have run. One child's distance is given to you each time.

	Ethan	McCauley	Tegan
Possible Distance 1	0.283		
Possible Distance 2	0.159		
Possible Distance 3		0.333	
Possible Distance 4		0.419	
Possible Distance 5			0.449

E

RPS
HW/Ext

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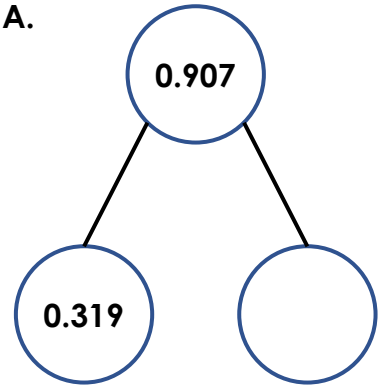
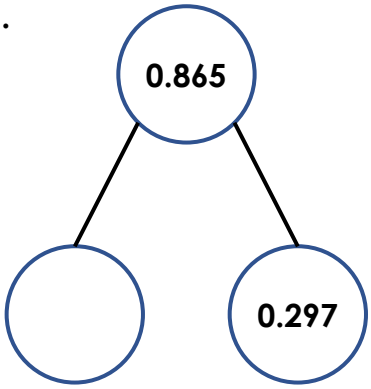
7. Complete the part whole models below.

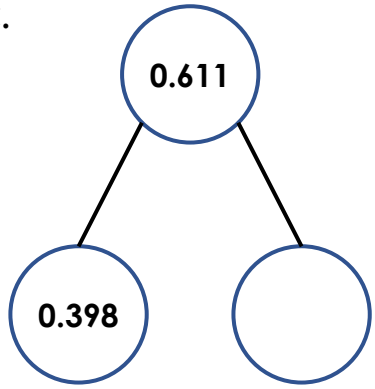
A.



B.



C.



GD

VF
HW/Ext

8. Use the inverse operation to complete the number sentences below.

A. 0.□□□ + 0.179 = 0.724

B. 0.177 + 0.□□□ = 0.654

C. 0.□□□ + 0.688 = 0.965

D. 0.848 + 0.□□□ = 0.901

E. 0.□□□ + 0.473 = 0.762

GD

VF
HW/Ext

9. Three children run a total distance of 0.991 miles. Each time they run, 2 children run over 0.697 miles in total. Write 5 possible distances that each child could have run.

	Daniel	Joseph	Rosie
Possible Distance 1			
Possible Distance 2			
Possible Distance 3			
Possible Distance 4			
Possible Distance 5			

GD

RPS
HW/Ext

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Developing

1. A. 0.45 B. 0.31 C. 0.82
2. A. 0.64 + 0.21 = 0.85 B. 0.74 + 0.24 = 0.98 C. 0.14 + 0.65 = 0.79 D. 0.54 + 0.42 = 0.96 E. 0.25 + 0.64 = 0.89
3. Various possible answers, for example: 0.22, 0.44, 0.32; 0.41, 0.34, 0.23; 0.51, 0.24, 0.23; 0.24, 0.36, 0.38; 0.45, 0.38, 0.15

Expected

4. A. 0.355 B. 0.436 C. 0.605
5. A. 0.593 + 0.02 = 0.613 B. 0.725 + 0.217 = 0.942 C. 0.888 + 0.77 = 0.965 D. 0.546 + 0.329 = 0.875 E. 0.573 + 0.419 = 0.992
6. Various possible answers, for example: 0.283, 0.254, 0.444; 0.159, 0.642, 0.18; 0.333, 0.4, 0.248; 0.4, 0.419, 0.162; 0.289, 0.243, 0.449

Greater Depth

7. A. 0.588 B. 0.568 C. 0.213
8. A. 0.545 + 0.179 = 0.724 B. 0.177 + 0.477 = 0.654 C. 0.277 + 0.688 = 0.965 D. 0.848 + 0.53 = 0.901 E. 0.289 + 0.463 = 0.762
9. Various possible answers, for example: 0.391, 0.4, 0.2; 0.456, 0.252, 0.283; 0.1, 0.781, 0.11; 0.25, 0.501, 0.24; 0.23, 0.51, 0.251