

05.05.20

WALT add decimals when crossing a whole.

Please complete as much as you are able, starting with sheet 1. They get more challenging as they go along, so if 1 is not challenging you, try 2, then 3.

1)

- 1) When adding two decimal numbers, partitioning one of them to find complements to 1 is a really good method. For example:



$$\begin{array}{r} 0.64 + 0.59 = \\ \downarrow \\ 0.64 + 0.36 + 0.23 = \\ 1 + 0.23 = 1.23 \end{array}$$

Use complements to 1 to add these decimals.

a) $0.76 + 0.57$

c) $1.43 + 0.64$

b) $0.56 + 0.84$

d) $0.91 + 2.74$

- 2) Use the place value grid to add these decimals.

a) $1.756 + 0.527 =$

Ones	tenths	hundredths	thousandths
●	●●●●	●●●	●●●
	●●●●	●	●●●●●

$0.853 + 0.31 =$

Ones	tenths	hundredths	thousandths
	●●●●	●●●	●●
	●●	●	

- 3) Use the column method to add these decimals.

a)

	1	3	6	
+	0	7	5	2

b) $0.654 + 0.167$

2)

- 1) Alma has a piece of ribbon which measures 1.76m long. She cuts it into 2 different length pieces.



The two pieces of my ribbon measure 0.87 metres and 0.91 metres.

Is Alma correct?
Explain your reasoning.

- 2) Sammy can use the digits 1-9 only once to make a sum with a total greater than 1.
Sammy says,



I can use the digit 8 to complete this calculation.

	0	2	9	5
+	0		4	1
	1	0	3	6

Do you agree with Sammy? Explain why.

- 3) George is making some juice mocktails for his friends. He is making 2 litres of mocktails in total.
Here is his recipe:

- 0.728 litres orange juice
- 0.46 litres raspberry juice
- 0.503 litres apple juice
- _____ litres peach juice



Does George use more than 0.3 litres of peach juice in his mocktail? Explain how you know.

3)

- 1) Complete all three statements below using each of the decimal numbers once.



0.357	0.59	0.57
0.67	0.48	0.793

$$\underline{\hspace{2cm}} + 0.78 > 0.64 + \underline{\hspace{2cm}} = 0.534 + 0.676$$

$$\underline{\hspace{2cm}} + 0.742 < 0.78 + 0.54 < \underline{\hspace{2cm}} + 0.54$$

$$0.674 + \underline{\hspace{2cm}} = 0.763 + 0.391 < 0.489 + \underline{\hspace{2cm}}$$

- 2) Roma is making these three fruity drinks. She only has a 1.5 litre jug. Which drink will fill her jug exactly? How much over or below the jug's capacity are the other two drinks?

Strawberry Sparkle

0.57 litres milk
0.256 litres strawberry puree
0.25 litres strawberry syrup
0.458 litres water

Mango Madness

0.485 litres coconut milk
0.252 litres mango puree
0.255 litres peach juice
0.48 litres water

Raspberry Razzle

0.337 litres orange juice
0.758 litres raspberry juice
0.25 litres cranberry juice
0.155 litres raspberry syrup

