Thursday 9th July 2020

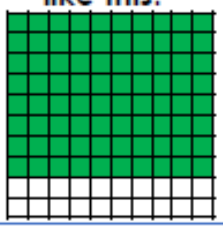
Revision of hundredths – problem solving

MILD

1a. Isaac is thinking of a number which has tenths and hundredths.

My number is less than 1.

The tenths can be represented like this:



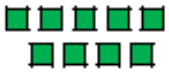
Write 5 possibilities that Isaac's number could be.

4 PS

1b. Pippa is thinking of a number which has tenths and hundredths.

My number is less than 1.

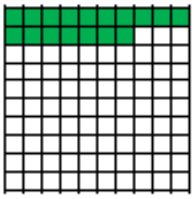
The hundredths can be represented like this:



Write 5 possibilities that Pippa's number could be.

4 PS

2a. Hafsa thinks she has completed the bar model.

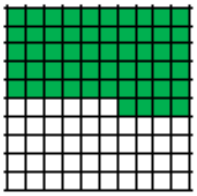


$\frac{7}{100}$	
$\frac{1}{10}$	$\frac{7}{100}$

Is she correct? Explain how you know.

4 R

2b. Felix thinks he has completed the bar model.

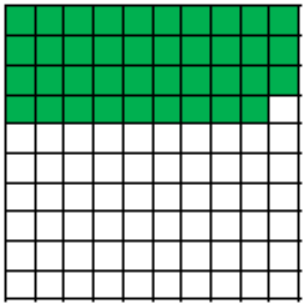


$\frac{54}{100}$	
$\frac{4}{10}$	$\frac{5}{100}$

Is he correct? Explain how you know.

4 R

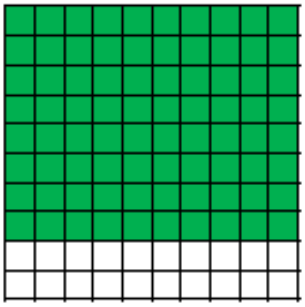
3a. Joe has represented 29 hundredths on a hundred square.



Is he correct? Explain your answer.

4 R

3b. Lucy has represented 78 hundredths on a hundred square.



Is she correct? Explain your answer.

4 R

HOT

Recognise Tenths And Hundredths

4a. Jake is thinking of a number which has tenths and hundredths.

My number is less than 1.

The tenths in my number can be represented with 3 shaded rows of a hundred square.

Write 5 possibilities that Jake's number could be.

4 PS

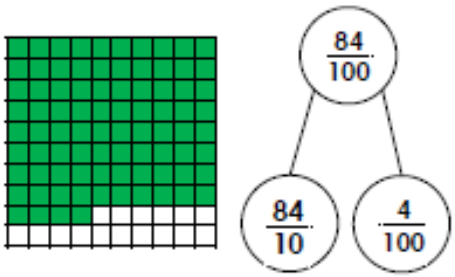
5a. Millie thinks she has completed the bar model.

$\frac{75}{100}$	
$\frac{7}{10}$	$\frac{5}{100}$

Is she correct? Explain how you know.

4 R

6a. Lucas has represented 84 hundredths in two different ways.



Is he correct? Explain your answer.

4 R

Recognise Tenths And Hundredths

4b. Maddie is thinking of a number which has tenths and hundredths.

My number is less than 1.

The tenths in my number can be represented with 7 shaded rows of a hundred square.

Write 5 possibilities that Maddie's number could be.

4 PS

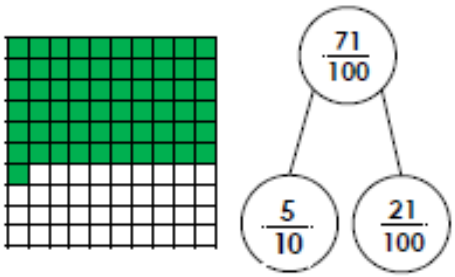
5b. Zack thinks he has completed the bar model.

$\frac{49}{100}$	
$\frac{9}{10}$	$\frac{4}{100}$

Is he correct? Explain how you know.

4 R

6b. Zainab has represented 71 hundredths in two different ways.



Is she correct? Explain your answer.

4 R

SPICY

Recognise Tenths And Hundredths

7a. Toby is thinking of a number which has tenths and hundredths.

My number is more than 3 but less than 4.

The hundredths can be represented with 6 shaded squares on a hundred square.

The tenths digit is an odd number.

Write 5 possibilities that Toby's number could be.

4 PS

Recognise Tenths And Hundredths

7b. Ivy is thinking of a number which has tenths and hundredths.

My number is more than 7 but less than 8.

The tenths can be represented with 4 shaded rows on a hundred square.

The hundredths digit is an even number.

Write 5 possibilities that Ivy's number could be.

4 PS

8a. Emmie thinks she has completed the bar model.

$4\frac{88}{100}$		
4	$\frac{8}{10}$	$\frac{88}{100}$
4	$\frac{88}{100}$	

Is she correct? Explain how you know.

4 R

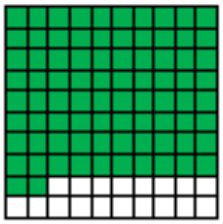
8b. Arlo thinks he has completed the bar model.

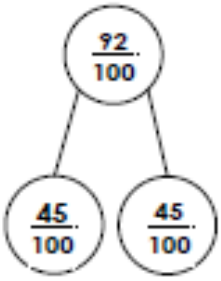
$7\frac{26}{100}$		
7	$\frac{26}{10}$	$\frac{26}{100}$
7	$\frac{26}{100}$	

Is he correct? Explain how you know.

4 R

9a. Eesa has represented 92 hundredths in two different ways.

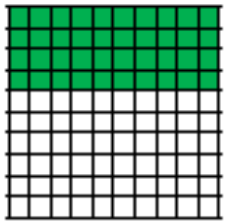


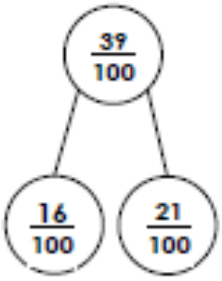


Is he correct? Explain your answer.

4 R

9b. Tilly has represented 39 hundredths in two different ways.





Is she correct? Explain your answer.

4 R

SOLUTIONS

Reasoning and Problem Solving
Recognise Tenths And Hundredths

Mild

1a. Various answers, for example:
$\frac{81}{100}$ $\frac{82}{100}$ $\frac{83}{100}$ $\frac{84}{100}$ $\frac{85}{100}$

2a. Hafsa is not correct because it is the same as 17 hundredths, not 7 hundredths.

3a. Joe is incorrect because the hundred square shows 39 hundredths.

Hot

4a. Various answers, for example:
$\frac{31}{100}$ $\frac{32}{100}$ $\frac{33}{100}$ $\frac{34}{100}$ $\frac{35}{100}$

5a. Millie is correct; 7 tenths and 5 hundredths is the same as 75 hundredths.

6a. His hundred square is correct. The part whole model is incorrect because he has written 84 tenths instead of 8 tenths.

Spicy

7a. $3\frac{16}{100}$, $3\frac{36}{100}$, $3\frac{56}{100}$, $3\frac{76}{100}$, $3\frac{96}{100}$

8a. No, she is incorrect because she has written 88 hundredths instead of 8 hundredths on the second row.

9a. No, he is incorrect. The hundred square shows 82 hundredths instead of 92 hundredths. The part whole model shows a total of 90 hundredths instead of 92.

Reasoning and Problem Solving
Recognise Tenths And Hundredths

Mild

1b. Various answers, for example:
$\frac{29}{100}$ $\frac{39}{100}$ $\frac{49}{100}$ $\frac{59}{100}$ $\frac{69}{100}$

2b. Felix is not correct because it should be 5 tenths and 4 hundredths.

3b. Lucy is incorrect because the hundred square shows 80 hundredths.

Hot

4b. Various answers, for example:
$\frac{74}{100}$ $\frac{75}{100}$ $\frac{76}{100}$ $\frac{77}{100}$ $\frac{78}{100}$

5b. Zack is incorrect because he has mixed up the numerators. There should be 4 tenths and 9 hundredths on the bar model.

6b. The part whole model is correct. The hundred square is incorrect because there are 61 squares shaded instead of 71.

Spicy

7b. $7\frac{40}{100}$, $7\frac{42}{100}$, $7\frac{44}{100}$, $7\frac{46}{100}$, $7\frac{48}{100}$

8b. No, he is incorrect because he has written 26 as the numerator for the tenths and hundredths on the second row instead of 2 tenths and 6 hundredths.

9b. No, she is incorrect. The hundred square shows 40 hundredths instead of 39. The part whole model shows 37 hundredths instead of 39.