1)
$$\frac{6}{100}$$
, 0.06
a) $\frac{3}{10} = \frac{30}{100} = 0.3$
b) $\frac{4}{100}$, 0.04
b) $\frac{7}{10}$ and $\frac{2}{100} = \frac{72}{100} = 0.72$
3) $\frac{15}{10} = \frac{150}{100} = 1 \frac{5}{10} = 1.5$
1)
a) The first number line is divided into increments of one-tenth. The first fraction should be $\frac{2}{10}$.
b) The second number line is divided into increments of one-hundredth. The last fraction should be $\frac{69}{100}$.
c) Jia is incorrect. She has represented 2.04, not 2.4 with the place value counters. Hari is incorrect because he has mixed up the tenths and hundredths. His representation shows 1.43, not 1.34 using place value counters.
3)
a) This statement is true.
b) This statement is false. It should be $\frac{3}{100}$, not $\frac{30}{100}$.
1)
a) 18.32, 28.13, 38.12
b) 18. $\frac{32}{100}$, 28. $\frac{13}{100}$, 38. $\frac{12}{100}$
c) Bartek's number is between 2.33 and 2.39 so could be:

3) There are various possibilities. For example:

4 + 0.2 + 0.08,
$$4\frac{28}{100}$$
, 4 + $\frac{2}{10}$ + $\frac{8}{100}$







1)

a) Emily has made a number with two decimal places using these four digits. Use the clues to work out what her number could be. You must use each digit once. Find all possibilities.



- **b)** Write each of the decimals as mixed numbers.
- 2) Bartek is thinking of a decimal number. What could his number be? Find three possibilities.



2 + 0.3 + 0.03 is less than my number. It is less than 2 + $\frac{2}{10}$ + $\frac{9}{100}$. Its digits add up to an odd number.

Bartek

3) Priya has represented the number 4.28 as:

4 ones + 2 tenths + 8 hundredths

Represent 4.28 in three other ways.



1)

a) Write the fraction and decimal of the hundred square which is shaded.

					Π	
					\square	
					\square	
_				_	_	1

b) Write the fraction and decimal represented by the counters.



2) Write equivalent fractions and decimals for the shaded parts of the hundred squares.



3) Write the fractions, mixed numbers and decimal represented by the hundred squares.



Equivalent Fractions and Decimals (Hundredths)



1)

a) Write the fraction and decimal of the hundred square which is shaded.

b) Write the fraction and decimal represented by the counters.



2) Write equivalent fractions and decimals for the shaded parts of the hundred squares.



3) Write the fractions, mixed numbers and decimal represented by the hundred squares.











1)

 a) Emily has made a number with two decimal places using these four digits. Use the clues to work out what her number could be. You must use each digit once. Find all possibilities.



3) Priya has represented the number 4.28 as:

4 ones + 2 tenths + 8 hundredths

Represent 4.28 in three other ways.

Equivalent Fractions and Decimals (Hundredths)



1)

a) Emily has made a number with two decimal places using these four digits. Use the clues to work out what her number could be. You must use each digit once. Find all possibilities.



- **b)** Write each of the decimals as mixed numbers.
- 2) Bartek is thinking of a decimal number. What could his number be? Find three possibilities.



3) Priya has represented the number 4.28 as:

4 ones + 2 tenths + 8 hundredths

Represent 4.28 in three other ways.





Diving into Mastery Guidance for Educators

Each activity sheet is split into three sections, diving, deeper and deepest, which are represented by the following icons:



These carefully designed activities take your children through a learning journey, initially ensuring they are fluent with the key concept being taught; then applying this to a range of reasoning and problem-solving activities.

These sheets might not necessarily be used in a linear way. Some children might begin at the 'Deeper' section and in fact, others may 'dive straight in' to the 'Deepest' section if they have already mastered the skill and are applying this to show their depth of understanding.

National Curriculum Aim

Read and write decimal numbers as fractions



Write the fraction and decimal of the hundred square which is shaded.

Diving



Write the fraction and decimal represented by the counters.



Diving



Write equivalent fractions and decimals for the shaded parts of the hundred squares.





Jia and Hari are representing fractions and decimals. Do you agree with their statements? Explain your answer.

Deeper



I have represented 2.03 using place value counters.

Jia is incorrect. She has represented 2.3, not 2.03 with the place value counters.

Hari



I have represented 1.23 using place value counters.

Hari is correct.

Deepest



Bartek is thinking of a decimal number. What could his number be? Find three possibilities.





5 + 0.2 + 0.02 is less than my number. It is less than 5 + $\frac{2}{10}$ + $\frac{9}{100}$.

Its digits add up to an even number.

Bartek's number is between 5.23 and 5.28 so could be: 5.23, 5.25, 5.27



Dive in by completing your own activity!



