

1)		√ or x	corrections	$\begin{array}{c} 2) \ 1\frac{1}{2} = 1.5, \ 2\frac{1}{2} = 2.5 \end{array}$
	$\frac{1}{2} = 0.1$	x	= 0.5	$ \begin{bmatrix} 0 & \frac{1}{2} & 1 & 1\frac{1}{2} & 2 & 2\frac{1}{2} & 3 \\ & & + & + & + & + & + \\ & 0.5 & & (12) & & (22) \end{bmatrix} $
	$\frac{3}{5} = 0.6$	\checkmark		3) Children should disagree with both Hari and Amrit.
	$\frac{2}{10} = 0.2$	\checkmark		$\frac{12}{5}$ is equivalent to 2.4, $\frac{15}{4}$ = 3.75
	$\frac{1}{4} = 0.4$	x	= 0.25	
	$\frac{1}{4} = 0.4$	x	= 0.25	

1) Various answers are possible. Section A – numbers greater than 0 and less than 0.25, e.g. $\frac{1}{10}$, 0.2	2) Many answers are possible. For example: $\frac{14}{10} = 1 \frac{2}{5} = 1.4$	
Section B – numbers greater than 0.25 and less than 0.5, e.g. $\frac{2}{5}$, 0.3	3) Various answers are possible. Accept answers with two decimal places which are greater than 1.2 and less than 2.8, for example:	
Section C – numbers greater than 0.5 and less than 0.75, e.g. $\frac{6}{10}$, 0.7	1.25, 1.75, 2.25, 2.75	
Section D – numbers greater than 0.75 and less than 1, e.g. $\frac{4}{5}$, 0.9		



1) Abi has been converting fractions to decimals. Tick the conversions which are correct and explain any mistakes she has made.

		√ or x	Corrections	
α)	$\frac{1}{2} = 0.1$			
b)	$\frac{3}{5} = 0.6$			
c)	$\frac{2}{10} = 0.2$			
d)	$\frac{1}{4} = 0.4$			
 2) Zeke has written equivalent fractions and decimals on a number line. Identify and correct any mistakes he has made. 				
	0.5	1.2	2.2	
3) Hari and Amrit have been converting improper fractions to decimals. Do you agree with their statements? Prove it! $ \underbrace{\frac{12}{5} = 1.25} $ $ \underbrace{\frac{15}{4} = 1.4} $ $ \underbrace{\text{Amrit}} $				





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



Diving

Write the equivalent fractions and decimals that have been shaded in each hundred square.





Diving



Complete the missing fractions and decimals on the number line.



Deeper



Abi has been converting fractions to decimals. Tick the conversions which are correct and explain any mistakes she has made.

	√ or x	Corrections
$\frac{4}{5}$ = 0.45		
$\frac{7}{10} = 0.7$		
$\frac{1}{2} = 0.5$		
$\frac{3}{4} = 0.34$		

Deeper

Hari and Amrit are converting improper fractions to decimals. Do you agree with their statements? Prove it!



Deepest



Bartek has used the number cards to make a decimal. What number could he have made? Find four possibilities. You can use each card more than once.



Dive in by completing your own activity!







 Abi has been converting fractions to decimals. Tick the conversions which are correct and explain any mistakes she has made.

		√ or x	Corrections
α)	$\frac{1}{2} = 0.1$		
b)	$\frac{3}{5} = 0.6$		
c)	$\frac{2}{10} = 0.2$		
d)	$\frac{1}{4} = 0.4$		

2) Zeke has written equivalent fractions and decimals on a number line. Identify and correct any mistakes he has made.



3) Hari and Amrit are converting improper fractions to decimals. Do you agree with their statements? Prove it!



Equivalent Fractions and Decimals

 Abi has been converting fractions to decimals. Tick the conversions which are correct and explain any mistakes she has made.

		√ or x	Corrections
α)	$\frac{1}{2} = 0.1$		
b)	$\frac{3}{5} = 0.6$		
c)	$\frac{2}{10} = 0.2$		
d)	$\frac{1}{4} = 0.4$		

2) Zeke has written equivalent fractions and decimals on a number line. Identify and correct any mistakes he has made.



3) Hari and Amrit are converting improper fractions to decimals. Do you agree with their statements? Prove it!









Equivalent Fractions and Decimals 1) Write a fraction and a decimal which would fit into each of the sections of this A B C D 0.25 0.5 0.75 1 2) Use the digits 0, 1, 2, 4 and 5 to solve the fraction problem. You may use each digit more than once. 3) Bartek has used the number cards to make a decimal. What number could he have made? Find four possibilities. You can use each card more than once. 2 My number has 2 decimal places. It is greater than $1\frac{1}{5}$. It is less than $2\frac{8}{10}$.