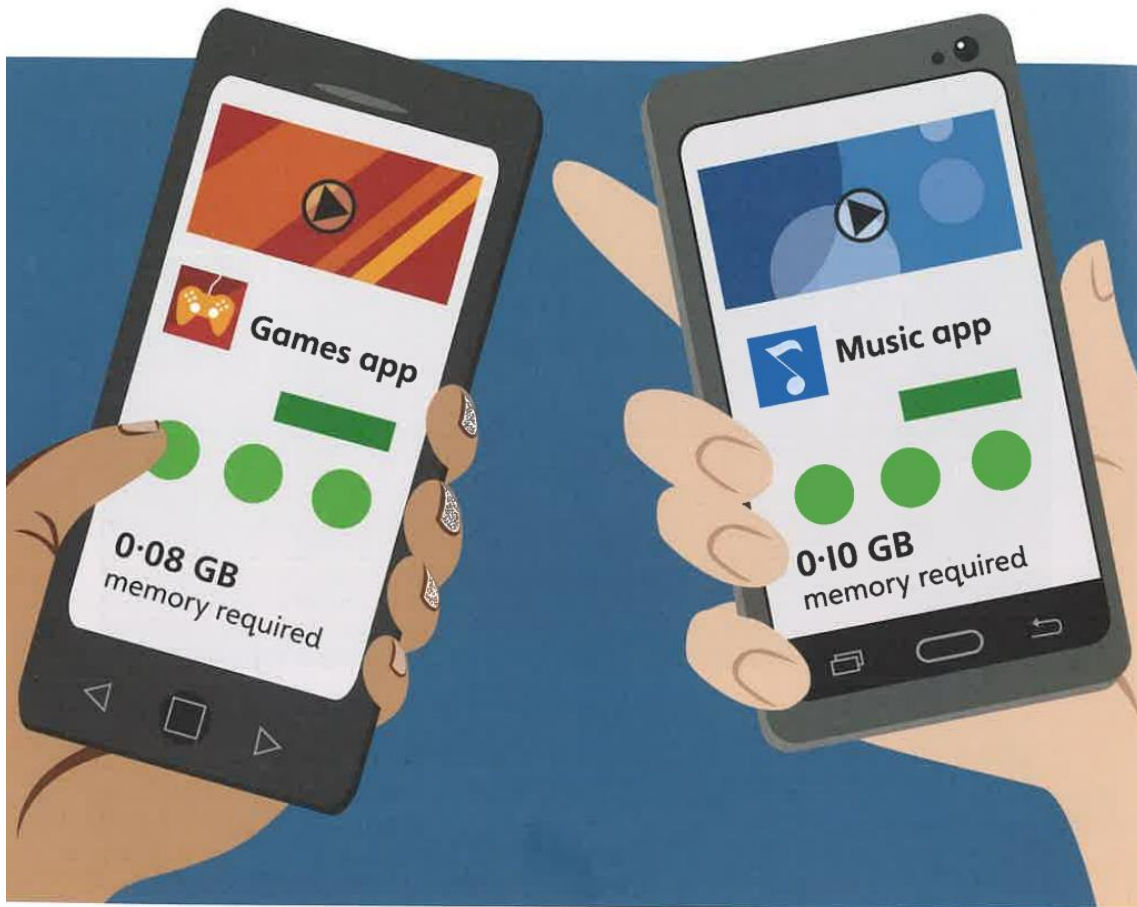


Main Maths Year 6 Week 1

Day 4 Learning Question: How do I show decimals as fractions? (2)

HOOK



- Write the memory required for the games app as a fraction.
- Write the memory required for the music app as a fraction in two different ways. Explain your answer.

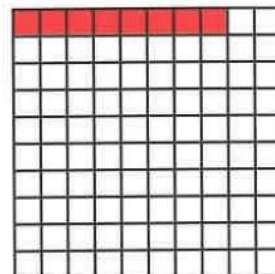
HOOK – Answers

a) The games app requires 0.08 GB.

I can show this on a place value grid and a hundredths grid.



O	•	Tth	Hth
	•		



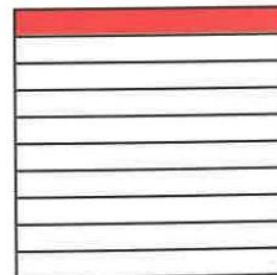
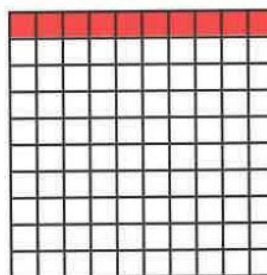
0.08 is equivalent to $\frac{8}{100}$. $0.08\text{GB} = \frac{8}{100}\text{GB}$.

b) The music app requires 0.10 GB.

0.10 is equivalent to $\frac{10}{100}$ or $\frac{1}{10}$ GB.

10 hundredths

1 tenth



I understood that both $\frac{10}{100}$ and $\frac{1}{10} = 0.10$ by thinking about exchange.



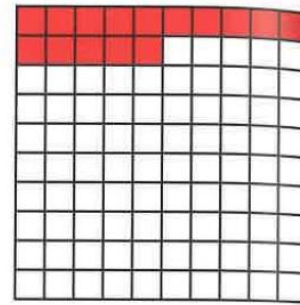
O	•	Tth	Hth
	•		

You can write 0.10 as $\frac{1}{10}$ or $\frac{10}{100}$.

THINK TOGETHER 1

a) A reading app requires 0.15 GB of memory. Write this as a fraction.

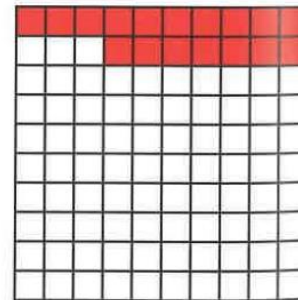
O	•	Tth	Hth
	•	0.1	0.01 0.01 0.01 0.01 0.01



$$0.15 \text{ GB} = \frac{\square}{\square} \text{ GB}$$

b) Bella's computer has $\frac{17}{100}$ GB memory remaining. Write this as a decimal.

O	•	Tth	Hth
	•		0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01



$$\frac{17}{100} \text{ GB} = \square.\square \text{ GB}$$

THINK TOGETHER 2

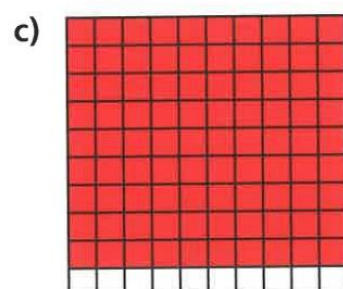
Write each number as a decimal and as a fraction.

a)

O	•	Tth	Hth
	•	0.1 0.1	0.01 0.01 0.01

b)

O	•	Tth	Hth
1	•	0.1	0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01



I think sometimes they can be written in more than one way.

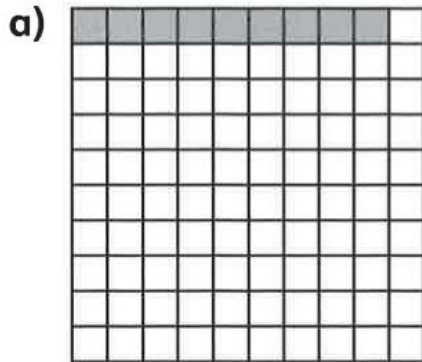


MAIN WORK Day 4

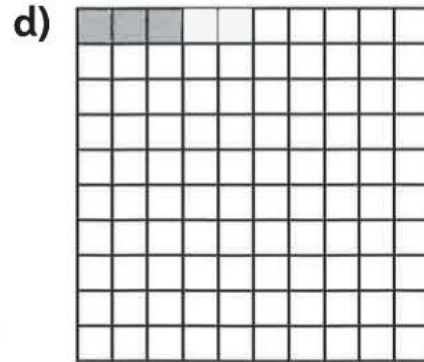
Learning Question: How do I show decimals as fractions? (2)

1)

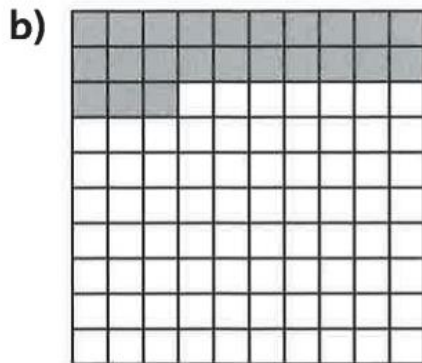
Write each number as a fraction and as a decimal.



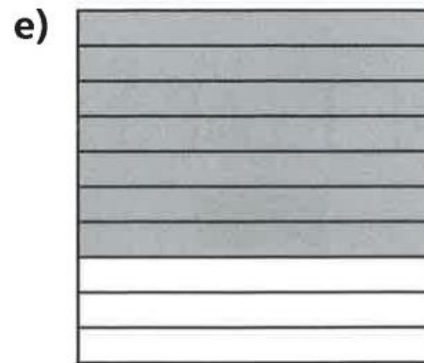
$$0.\boxed{} = \frac{\boxed{}}{\boxed{}}$$



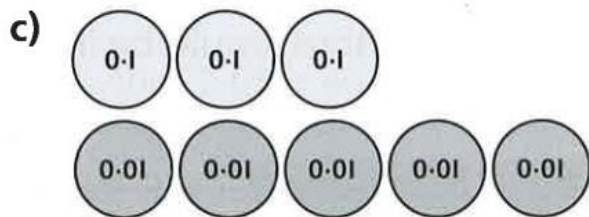
$$0.\boxed{} = \frac{\boxed{}}{\boxed{}}$$



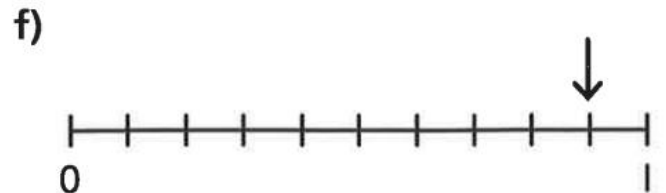
$$0.\boxed{} = \frac{\boxed{}}{\boxed{}}$$



$$0.\boxed{} = \frac{\boxed{}}{\boxed{}}$$



$$0.\boxed{} = \frac{\boxed{}}{\boxed{}}$$



$$0.\boxed{} = \frac{\boxed{}}{\boxed{}}$$

2)

Draw place value counters to complete each of these place value grids.

a) $\frac{21}{100}$

O	•	Tth	Hth
	•		

b) $\frac{21}{10}$

O	•	Tth	Hth
	•		

c) $\frac{201}{100}$

O	•	Tth	Hth
	•		

3)

Tick all of the numbers that appear in the shaded part of the number line.

a) 1.05 $\frac{11}{100}$ $1\frac{11}{100}$ 0.15 1.3 $\frac{15}{10}$



b) 2.80 $\frac{28}{100}$ $2\frac{8}{100}$ $\frac{208}{100}$ 2.71 $2\frac{87}{100}$



4) MAKING HEADWAY

Write a decimal, a fraction and a mixed number that would be in the shaded part of the number line.



Decimal = _____ Fraction = _____

Mixed number = _____

5) AIMING HIGH

Complete the table.

Decimal number	Mixed number	Improper fraction
1.61	$1 \frac{61}{100}$	
	$1 \frac{6}{10}$	
		$\frac{226}{100}$
2.06		
	$4 \frac{60}{100}$	