Year 6 Maths Developing activity Lesson 1   LO: TBAT find equivalent decimals and fractions.
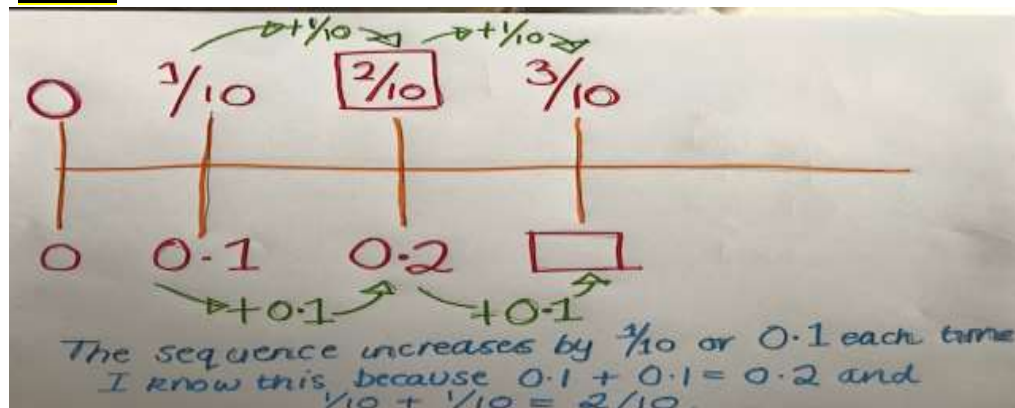
Success Criteria:

1. Take a look at the number line.
2. Copy the number line into you book.
3. Fill in the missing decimal and fraction values.

Model

$34 \div 10 = 3.4$

I know this because there are 3 10s in 30

We always do a decimal point between the ones and the 1/10s.

Tens Ones • 1/10 1/100

3 4
→ 3 . 4

When we _divide_ by 10, we move the number _1_ place to the right.

Now you try…

Write the missing fractions and decimals.

Solve these divisions.

$34 \div 10 = \square$

$56 \div 10 = \square$

$4.2 \times 10 = \square$

$85 \div 10 = \square$

$1.3 \times 10 = \square$

Year 6 Maths Expected/ Greater depth activity Lesson 1

Success Criteria:

LO: TBAT solve problems including decimals.

Task: You are going apply your knowledge to solve several problems including decimals. Complete at least 2 columns, more if you can!

1.	**Identify the decimal numbers.**
2.	**Sequence the numbers if needed.**
3.	**Use knowledge of multiplying and dividing by 10, 100, 1000 to solve calculations.**
4.	**For some questions you may have to use one or more of the following 4 operations (+, -, x or ÷).**

Task 1	Task 2	Task 3	Task 4
Practice Work out the answers to the calculations.	**Arithmetic**	**Problem Solving**	**Reasoning**

Task 1 (Practice):

1. $43.06 \times \boxed{} = 4306$
2. $7242.1 \times \boxed{} = 724210$
3. $846250 \div \boxed{} = 8462.5$
4. $34.62 \times \boxed{} = 34620$
5. $78846 \div \boxed{} = 788.46$
6. $354.13 \times \boxed{} = 3541.3$

Task 2 (Arithmetic):

8. $2045 - 812 =$

9. $11^2 =$

10. $3.6 \div 10 =$

11. $12 \times 5 \times 6 =$

Task 3 (Problem Solving):

Task 1
Write these numbers in order of size, starting with the **smallest.**

1.9   0.96   1.253   0.328

[ ] [ ] [ ] [ ]

smallest

Task 2
Circle two numbers that add together to equal **0.25**

0.05   0.23   0.2   0.5

Task 3
Write the missing number.

$70 \div \boxed{} = 3.5$

Task 4 (Reasoning):

Task 1
Tommy says,

"The more decimal places a number has, the smaller the number is."

Do you agree? Explain why.

Task 2
Four children are thinking of four different numbers.

3.454   4.445   4.345   3.54

Teddy: "My number has four hundredths."

Alex: "My number has the same amount of ones, tenths and hundredths."

Dora: "My number has less ones that tenths and hundredths."

Jack: "My number has 2 decimal places."

Match each number to the correct child.

12 $\quad 0.1 = \dfrac{?}{100}$

13 $\quad 2185 \times 7 =$

14 $\quad 8628 \div 4 =$

Task 4
What number is halfway between 1.4 and 2.1?

Task 5
Large pizzas cost £8.50 each.
Small pizzas cost £6.75 each.
Five children together buy one large pizza and three small pizzas.
They share the cost equally.
How much does each child pay?

Task 3
Alex says that 3.24 can be written as 2 ones, 13 tenths and 4 hundredths.

Do you agree?

How can you partition 3.24 starting with 2 ones?
How can you partition 3.24 starting with 1 one?
Think about exchanging between columns.