## * Maths Shed

## * Year 4

Spring Block 4: Decimals
Lesson 2: To be able to express tenths as decimals


## Success criteria:

$\checkmark$ I can use mathematical equipment and pictorial representations to express tenths as decimals
$\checkmark$ I can explain my reasoning when using mathematical equipment and pictorial representations to express tenths as decimals

To be able to express tenths as decimals

## Starter:

Which one doesn't belong?


Explain your answer.

To be able to express tenths as decimals

## Starter:

Which one doesn't belong?


The hundred square doesn't belong. It is showing three tenths, the other representations each show one tenth.

To be able to express tenths as decimals

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## Talking Time:

Complete the table below.


To be able to express tenths as decimals

## Talking Time:

Complete the table below.

| representation |  | worded form | fraction | decimal |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|       <br>       | three tenths | $\frac{3}{10}$ | 0.3 |  |  |
|  |  |  |  |  |  |
|  | one tenth | $\frac{1}{10}$ | 0.1 |  |  |
|       |  |  |  |  |  |

To be able to express tenths as decimals

## Talking Time:

Complete the table below.


To be able to express tenths as decimals

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## Talking Time:

Complete the table below.


To be able to express tenths as decimals
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## Talking Time:

Complete the table below.


To be able to express tenths as decimals

## Talking Time:

Complete the table below.

| representation |  | worded form | fraction | decimal |
| :---: | :---: | :---: | :---: | :---: |
| -0..) |  | three tenths |  |  |
|   <br>   |  |  | $\frac{3}{10}$ | 0.3 |
| $\because \because$ |  | two tenths | $\frac{2}{10}$ | 0.2 |
|  |  | six tenths | $\frac{6}{10}$ | 0.6 |

To be able to express tenths as decimals

## Activity 1:

Complete the table below.


To be able to express tenths as decimals

## Activity 1:

Complete the table below.

| representation | worded form | fraction | decimal |
| :---: | :---: | :---: | :---: |
| $\because$ $\because$ $\cdots$   <br>      | three tenths | $\frac{3}{10}$ | 0.3 |
|  | four tenths | $\frac{4}{10}$ | 0.4 |
|  | nine tenths | $\frac{9}{10}$ | 0.9 |

To be able to express tenths as decimals

## Talking Time:

Express the representation below as a fraction and as a decimal.


To be able to express tenths as decimals

## Talking Time:

Express the representation below as a fraction and as a decimal.

0.6

To be able to express tenths as decimals

## Talking Time:

Express the representation below as a fraction and as a decimal.


To be able to express tenths as decimals

## Talking Time:

Express the representation below as a fraction and as a decimal.

0.3

To be able to express tenths as decimals

## Talking Time:

Express the representation below as a fraction and as a decimal.


To be able to express tenths as decimals

## Talking Time:

Express the representation below as a fraction and as a decimal.

0.5

To be able to express tenths as decimals

## Talking Time:

Express the representation below as a fraction and as a decimal.


To be able to express tenths as decimals

## Talking Time:

Express the representation below as a fraction and as a decimal.


To be able to express tenths as decimals

## Talking Time:

Express the representation below as a fraction and as a decimal.


To be able to express tenths as decimals

## Talking Time:

Express the representation below as a fraction and as a decimal.


To be able to express tenths as decimals

## Talking Time:

Express the representation below as a fraction and as a decimal.


To be able to express tenths as decimals

## Talking Time:

Express the representation below as a fraction and as a decimal.


To be able to express tenths as decimals

## Talking Time:

Express the representation below as a fraction and as a decimal.


To be able to express tenths as decimals

## Talking Time:

Express the representation below as a fraction and as a decimal.

0.3

To be able to express tenths as decimals

## Talking Time:

Express the representation below as a fraction and as a decimal.


To be able to express tenths as decimals

## Talking Time:

Express the representation below as a fraction and as a decimal.


To be able to express tenths as decimals

## Talking Time:

Express the representation below as a fraction and as a decimal.


To be able to express tenths as decimals

## Talking Time:

Express the representation below as a fraction and as a decimal.

0.9

To be able to express tenths as decimals

## Talking Time:

Express the representation below as a fraction and as a decimal.


To be able to express tenths as decimals

## Talking Time:

Express the representation below as a fraction and as a decimal.

0.6

To be able to express tenths as decimals

## Activity 2 :

Express the representation below as a fraction and as a decimal.


To be able to express tenths as decimals

## Activity 2:

Express the representation below as a fraction and as a decimal.


To be able to express tenths as decimals

## Activity 3 :

## What's the same? What's different?

Express the following in as many ways as you can...


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Activity 3:
Examples provided.


## six tenths


0.6

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## Activity 4:

Which one doesn't belong?


Explain your answer.

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## Activity 4:

Which one doesn't belong?


The left-hand ten frame doesn't belong as it represents 0.5 . Whereas the other ten frames all show 0.4 as there are four 0.1 counters in each.

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Activity 5:
Ahmed says, "I have five ones."

Ruth says, "I have fifty tenths."

James says, "Fifty is more than five, so Ruth has more than Ahmed."

Do you agree?
Explain your answer.

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## Activity 5:

Ahmed says, "I have five ones."

Ruth says, "I have fifty tenths."

James says, "Fifty is more than five, so Ruth has more than Ahmed."

No, I do not agree. Fifty tenths is the same as five ones, because there are ten tenths in one. Therefore, James is wrong as they have the same amount.

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Evaluation:

> 1.3 is the same as thirteen tenths.

Do you agree with Astrobee? Can you think of other ways to express 1.3?
Explain your answer.

To be able to express tenths as decimals

Evaluation:
1.3 is the same as thirteen tenths.

## Yes, Astrobee is correct.

1.3 is the same as thirteen tenths, it is also the same as one and three tenths.

## Success criteria:

$\checkmark$ I can use mathematical equipment and pictorial representations to express tenths as decimals
$\checkmark$ I can explain my reasoning when using mathematical equipment and pictorial representations to express tenths as decimals

