

*Dr Fog Presents*

**Giving practice in  
equivalent decimals,  
fractions and percentages.**

Year 6 (National Numeracy Strategy)  
(Based on DFEE Sample Lessons)



# Resources

- Worksheet (Set A and B)
- Blotak or masking tape.



# Mental Learning Objective

- Expressing simple fractions or decimals as percentages and vice versa.



# Mental Learning Task

- Today you are going to be thinking about the equivalent values of percentages, decimals and fractions.



# Mental Learning Task

- What do you understand by...

250%



# Mental Learning Task

- This can also be written as...

250%

25

100



# Mental Learning Task

- How else can this be written?

250%

25

100



# Mental Learning Task

- Can this be written in any other ways?

250%

25

100





# Mental Learning Task

- What do you understand by...

40%



# Mental Learning Task

- This can also be written as...

40%

40

100



# Mental Learning Task

- How else can this be written?

40%

40

100



# Mental Learning Task

- Can this be written in any other ways?

40%

40

100



# Mental Learning Task

- What do you understand by...

750%



# Mental Learning Task

- This can also be written as...

75%

75

100



# Mental Learning Task

- How else can this be written?

750%

75

100



# Mental Learning Task

- Can this be written in any other ways?

75%

75

100





# Mental Learning Objective

- Expressing simple fractions or decimals as percentages and vice versa.



# Main Learning Objective

- Expressing simple fractions or decimals as percentages and vice versa.
- Expressing simple fractions as decimals and vice versa.



# Key idea

**Percentages, fractions  
and decimals are  
equivalent ways of  
writing a number.**



# Main Learning Task

- Put children into groups of 3 or 4.
- Distribute the dominoes from set A so each group has one.
- Ask each group to copy their domino neatly onto a sheet of A4 paper.



# Main Learning Task

- Stick the copy of the domino with a double percentage onto the board with Blutak or masking tape.
- Who has a domino which would fit either end of this domino?
- Continue until domino makes a complete ring.



# Main Learning Task

- Discuss why each answer is right or wrong.
- Percentages can be expressed as decimals, so 25 per cent can be written as 25% or 0.25.
- What else is 0.25 the same as?



# Main Learning Task

- Distribute the dominoes from Set B.
- Ask the pupils to complete the new domino ring.
- When you have finished, write down the matched pairs you have used,



# Main Learning Task

- When you have finished, make your own domino set, using percentages, fractions and decimals *and words if they choose.*





# Main Learning Objective

- Expressing simple fractions or decimals as percentages and vice versa.
- Expressing simple fractions as decimals and vice versa.



# Plenary

- Pick up any domino and copy on the board one of the numbers (a percentage, or fraction or decimal).
- What are some of the alternative ways of writing this number?



# Plenary

Percentage	Fraction	Decimal

- Give a percentage value, then the fraction and decimal equivalent,



# Plenary

- Homework:-
- Continue with the domino set you started inventing.



# Review of Key Idea

- Percentages, fractions and decimals are equivalent ways of writing a number.
- Did you learn that today?



# Worksheet

- Set A

10%	$\frac{1}{5}$
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20%	$\frac{1}{4}$
-----	---------------

25%	30%
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$\frac{3}{10}$	75%
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$\frac{3}{4}$	50%
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$\frac{1}{2}$	80%
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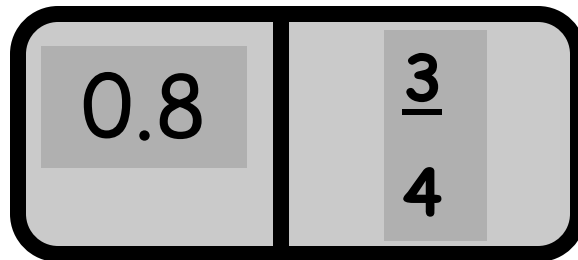
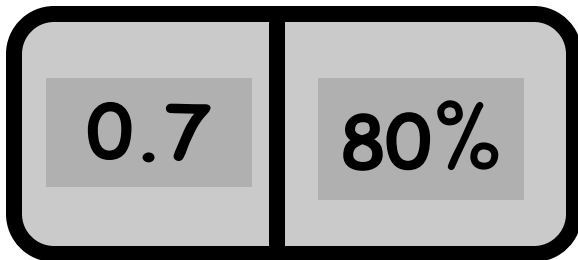
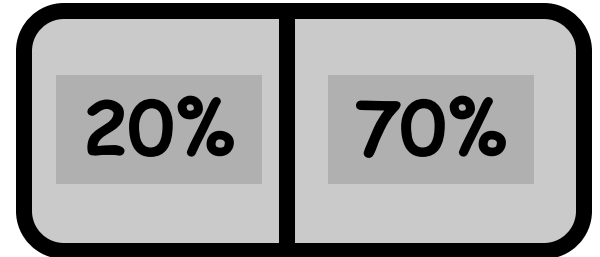
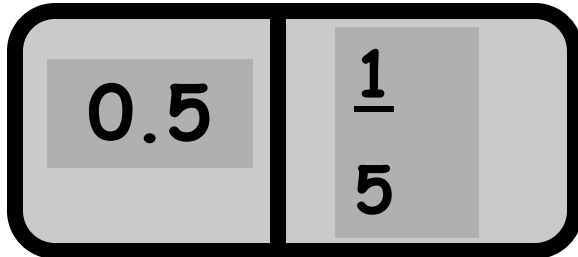
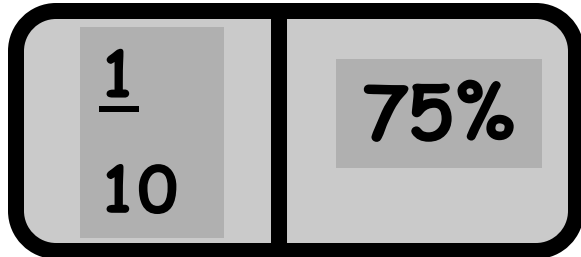
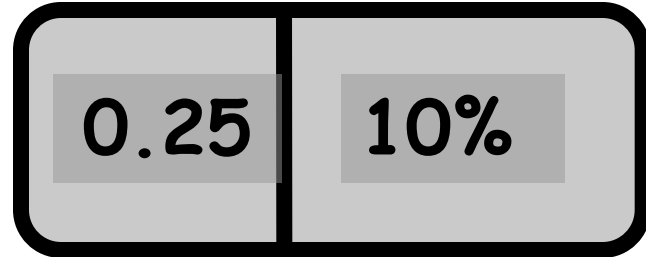
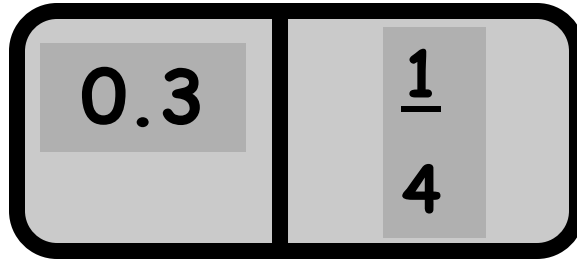
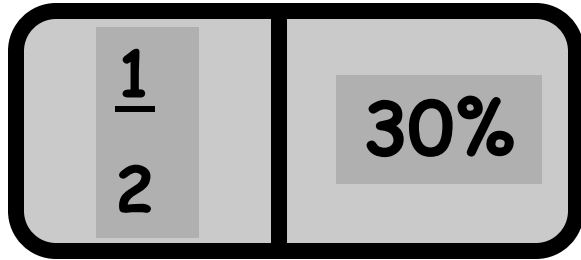
$\frac{4}{5}$	$\frac{2}{5}$
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40%	$\frac{3}{5}$
-----	---------------

60%	$\frac{1}{10}$
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# Worksheet

- Set B



# Where Can I Find More Resources Like This?

- You can now visit my teaching resource website at <http://www.DrFog.co.uk>
- You can [click here](#) to search for more of my teaching resources.
- [Click here](#) to visit my **YES** shop!

