

Dr Fog Presents

**Addition on an
empty number
line.**

Year 3 (National Numeracy Strategy)
(Based on DFEE Sample Lessons)



Resources

- Number fans for each pair
- 0 - 100 number line



Mental Learning Objective

- I can estimate and work out differences between numbers.



Mental Learning Task

- Get into pairs.
- Each pair makes a two-digit number with the number fans and holds it up in front of the teacher.



Mental Learning Task

- The teacher will hold up a number
- Who has the closest number to your teachers number.
- How close is your number?



Mental Learning Task

- Play this game again and see if you can get the closest number this time....



Mental Learning Objective

- I can estimate and work out differences between numbers.



Main Learning Objective

- I can add first the tens and then the ones on an empty number line.
- I can add the 'tens' all in one go.
- I can add two-digit numbers together.



Key idea

I can add the tens in one go.
I can use an empty number line.



Main Learning Task

- Today you are going to learn how to use an empty number line to work out addition problems involving two-digit numbers.



Main Learning Task

- I want to do $32 + 57$.
- Which number shall I start with?



Main Learning Task

- I will start with 57 because it is bigger.
- How should I break down the 32?

$$57 + 32 = ?$$

57



Main Learning Task

- I could break the 30 into three jumps of 10 and a jump of 2
- Draw this on the board for me.
- How else could I do it?

$$57 + 32 = ?$$



Main Learning Task

- What is the quickest way I could I have broken 32 into?

$$57 + 32 = ?$$

57



Main Learning Task

- Try to solve this problem.
- The next sum is 45 add 24.
- How do we solve it?



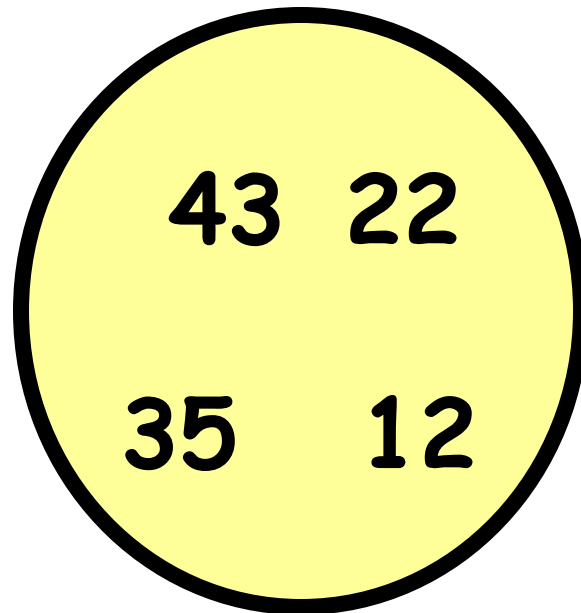
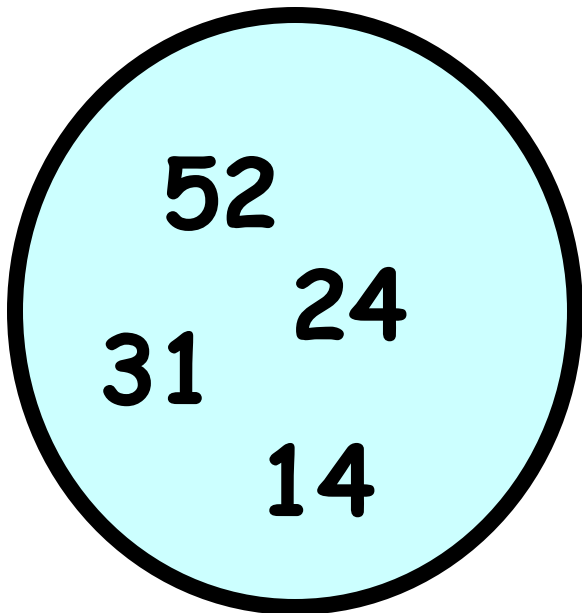
Main Learning Task

- We are now going to look at adding two two-digit numbers together.
- Remember to always start with the larger number.



Main Learning Task

- Choose a number from each of the circles and add them together.



Main Learning Objective

- I can add first the tens and then the ones on an empty number line.
- I can add the 'tens' all in one go.
- I can add two-digit numbers together.



Plenary

- Invite one or two of the children to demonstrate an addition.
- How did you work it out?
- Remember to start with the larger number.
- Add on the tens all in one go.



Plenary

- I am now going to ask you to do a couple of additions in your head.
- Close you eyes.
- Imagine drawing jumps on an empty number line.



Plenary

- What is 45 and 21?
- How did you work it out?



Plenary

- What is 35 and 42?
- How did you solve?
- Did you add from the largest number?



Review of Key Idea

- I can add the tens in one go.
- I can use an empty number line.
- Did you learn how to do this in this lesson?



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