

Dr Fog Presents

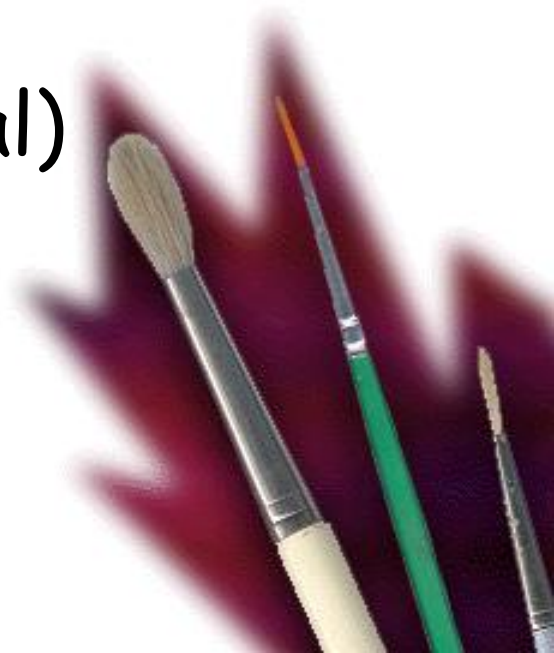
Solving Word Problems

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



Resources

- Loop cards (Available from www.Primaryresources.co.uk)
- Word problems (Available from www.primaryresources.co.uk)
- Individual number lines (Optional)
- 100-grids (optional)



Mental Learning Objective

- I can complete mental addition and mental subtraction problems.



Mental Learning Task

- Play a game of 'I have... who has'
- This is a loop game. The first person reads their card, the words indicate the next card to be read.
- See how fast you can play it.



Mental Learning Objective

- I can complete mental addition and mental subtraction problems.



Main Learning Objective

- I can pay attention to how an answer should be answered.
- I can separate out the calculation from the answer to the word problem.



Key idea

I can sort out how to answer a question from the actual solution to the question.



Main Learning Task

- Today we are looking at how to answer word questions.



Main Learning Task

- When we solve a word problem, we have to do two things:-
- We have to choose and do the calculations.
- We then use the result of our sum to answer the problem.

Main Learning Task

- Sit in pairs.
- I have a problem for you to solve.
- Lets read it first as a class.....

Question

Sam and Kim are twins.

On their birthday, Sam got £22 and Kim got £27. How much money did they get all together?

Calculation

Answer to the problem

Main Learning Task

- Discuss with your partner how you will solve it.

Question

Sam and Kim are twins.

On their birthday, Sam got £22 and Kim got £27. How much money did they get all together?

Calculation

Answer to the problem

Main Learning Task

- What information is not important?
- Cross it out

Question

Sam and Kim are twins.

On their birthday, Sam got £22 and Kim got £27. How much money did they get all together?

Calculation

Answer to the problem

Main Learning Task

- We don't need to know they are twins.

Question

~~Sam and Kim are twins.~~

On their birthday, Sam got £22 and Kim got £27. How much money did they get all together?

Calculation

Answer to the problem

Main Learning Task

- What calculation do we need to use?
- As it says ' Altogether', we know it is an adding problem.

Question

~~Sam and Kim are twins.~~

On their birthday, Sam got £22 and Kim got £27. How much money did they get all together?

Calculation

Answer to the problem

Main Learning Task

- We have now done the calculation but we haven't yet got the answer to the question. What was the question?

Question

~~Sam and Kim are twins.~~

On their birthday, Sam got £22 and Kim got £27. How much money did they get all together?

Calculation

49

Answer to the problem

Main Learning Task

- So what's the answer?
- £49

Question

~~Sam and Kim are twins.~~

On their birthday, Sam got £22 and Kim got £27. How much money did they get all together?

Calculation

49

Answer to the problem

Main Learning Task

- Here is another to solve

Question

Toni, Mark and Raj are saving up to buy a computer game together.

Toni has £8, Mark has £6 and Raj has 9

How much have they saved together?

Calculation:-

Answer to problem:-

Main Learning Task

- Here is another to solve.
- What calculation do we need?
- What is the answer?

Question

Joe is 8 years old. He has a sunflower 103 cm tall. His
David is only 4. David's sunflower is 98 cm tall.

How much shorter is David's sunflower than Joe's?

Calculation:-

Answer to problem:-

Main Learning Task

- Here is another to solve.
- What calculation do we need?
- What is the answer?

Question

Anne weighs 22kg. Anne's brother is called Harry.
Harry weighs 17kg.

How much more does Anne weigh than Harry?

Calculation:-

Answer to problem:-

Main Learning Task

- Complete the word problems worksheets.



Main Learning Task

- Simplification:-
- Encourage them to discuss the problems.
- Act out or draw the situations described.
- Provide number lines, 100-grids, or other apparatus to help children with the calculations.



Main Learning Task

- Challenge:-
- Write your own word problems for your friends to solve.



Main Learning Objective

- I can pay attention to how an answer should be answered.
- I can separate out the calculation from the answer to the word problem.



Plenary

- Go over some of the problems.
- Has one of the high attainers written one of their own for the class to solve?
- What is the solution?



Plenary

- Some homework...
- Make up some problems like you had today to try on your maths partners in another maths lesson.



Review of Key Idea

- I can sort out how to answer a question from the actual solution to the question.
- Did you learn how to do this today?



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.
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