

Dr Fog Presents

Division by 10 and 100

Year 4 (National Numeracy Strategy)
(Based on DFEE Sample Lessons)



Resources

- 0 - 100 number cards
- 0 - 100 number cards, marked in 10s
- Worksheet:- Fours, Extra Fours, Ones. Enlarged and cut out to make individual cards.
- Blu-tack



Mental Learning Objective

- I can rapidly recall number facts.



Mental Learning Task

- I am going to give you different numbers and three questions.
- Who is the fastest at answering them?



Mental Learning Task

36

- What is 36 divided by 4?
- What is double 36?
- What is half 36?



Mental Learning Task

42

- What is 42 divided by 6?
- What is double 42?
- What is half 42?



Mental Learning Task

66

- What is 66 divided by 6?
- What is double 66?
- What is half 66?



Mental Learning Task

20

- What is 20 divided by 4?
- What is double 20?
- What is half 20?



Mental Learning Objective

- I can rapidly recall number facts.



Main Learning Objective

- I can use the relationship between multiplication and division when dividing by 10 and 100.
- I can create a range of number sentences about division.



Key idea

**To mentally divide
by 10 or 100, you have
to move the digits
one or two places
right.**



Main Learning Task

- Today's lesson is on dividing by 10 and 100.



Main Learning Task

- First we are going to revise multiplying by 10 and 100.

$$7 \times 100 =$$

$$13 \times 100 =$$

$$26 \times 100 =$$

$$7 \times 100 =$$

Explain your
answer.



Main Learning Task

- We are now going to look at how number families are made.

$$6 \times 10 = 60 \quad 6 = 10 \div 60$$

What does $60 \div 10$ mean



Main Learning Task

- How many different ways can we describe $60 \div 10$.



Main Learning Task

- 2 times 100 is 200.
- So what is 200 divided by 100?
- Four 10s are 40, so what is 400 divided by 10?



Main Learning Task

- Write down more examples for discussion.
- Ask questions which can be answered by looking and interpreting the equations,



Main Learning Task

- Attach the 'Fours' cards cut from the enlarged worksheet to the board at random.
- Can anyone make a number sentence using some of the cards?



Main Learning Task

- Now you are going to make your own number sentences using the worksheet cards.
- Write down each number sentence you make.



Main Learning Task

- Simplification:-
- Use the 'Ones' cards from the worksheet.
- Can you make number sentences from them?
- You can look at a 0-1000 number lined numbered in 10s for support,



Main Learning Task

- Challenge:-
- Children to use the slip marked '?' to make sentences for each other to solve.'
- Children use the 'Fours' cards and the 'Extra Fours' cards to make a wider range of sentences.



Main Learning Objective

- I can use the relationship between multiplication and division when dividing by 10 and 100.
- I can create a range of number sentences about division.



Plenary

- Take the sets of cards one at a time starting with the 'Ones'.
- Ask children to volunteer sentences which you or the children can write on the board.
- Check the class agrees with the suggestions.



Review of Key Idea

- To mentally divide by 10 or 100, you have to move the digits one or two places right.
- Did you learn this in this lesson?



Worksheet

Fours
cards

4000	400	Divided by 10	100
10	=	Divided by 100	Is
40	+	?	4

Extra
Fours
cards

46	410	4600	4100
460	41	44	4400

Ones
Cards

1000	100	Divided by 10	10
1	=	Divided by 100	Is
Equals	÷	The same as	?

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