

Dr Fog Presents

Dividing various numbers by ten.

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



Resources

- None !



Mental Learning Objective

- I can read and record decimal numbers (tenths and hundredths).



Mental Learning Task

- Today's lesson is about decimal numbers and dividing numbers by ten.



Mental Learning Task

**Where have you
seen decimal
numbers?**



Mental Learning Task

- How would you read this number?

3.59



Mental Learning Task

- How would you read this number?

£3.59



Mental Learning Task

- We only label the



- not the p.



Mental Learning Task

- How would you read this number?

3.59m



Mental Learning Task

- Measures are harder.
- We could say seven point four five metres.
- We could also say seven metres and forty-five centimetres.



Mental Learning Task

12.7 and 12.34

- Does anyone know which is the larger one?



Mental Learning Task

12.7 and 12.34

- What does 12.7 mean?
- This means one ten, two units and seven tenths.



Mental Learning Task

12.7 and 12.34

- What does 12.34 mean?
- This means one ten, two units and three tenths and four hundredths..



Mental Learning Objective

- I can read and record decimal numbers (tenths and hundredths).



Main Learning Objective

- I can instantly recall division facts for the tens times table.



Key idea

When a number is divided by 10, the digits move one place to the right.



Main Learning Task

- What happens to a number when it is multiplied by 10?



Main Learning Task

$$1 \times 10 = 10$$

$$1 \times 100 = 100$$

$$1 \times 1000 = 1000$$

- The digit moves one place to the left.
- 'Adding 0 is incorrect.'



Main Learning Task

- Can you tell your teacher what the answer is to these sums.

$$23 \times 10$$

$$14 \times 10$$

$$275 \times 10$$

$$7 \times 10$$

$$50 \times 10$$

$$1000 \times 10$$



Main Learning Task

- What happens to a number when it is divided by 10?
- Digits move one place to the right.



Main Learning Task

- What are the answers to these?

$$120 \div 10 = 12$$

$$3400 \div 10 = 340$$

$$60 \div 10 = 6$$



Main Learning Task

- What happens if we divide 37 by 10?

37



Main Learning Task

- Every digit moves one to the right.

37



Main Learning Task

- What is the answer?

3.7



Main Learning Task

- What happens if 241 is divided by 10?

241



Main Learning Task

- Move each digit one place to the right.

241



Main Learning Task

- What is the answer to $241 \div 10$?

24.1



Main Learning Task

- Now what happens if you divide 15 by 10?
- Divide 15 pieces of paper between 10 pupils.
- How many does each have?



Main Learning Task

- Don't forget that $\frac{1}{2}$ is the same as $\frac{5}{10}$ and 0.5.



Main Learning Task

- Today you need to work in pairs.
- Take it in turns to choose any number.
- Both of you must divide it by 10.
- If your numbers agree, pick a new one.



Main Learning Task

- If you don't agree, work together to find the right answer.
- Write down the sum.



Main Learning Objective

- I can instantly recall division facts for the tens times table.



Plenary

- After a while, stop the pupils and write some examples of their work on the board.
- Why do we need a decimal point?



Plenary

- Solve these problems

$$270 \div 10$$

$$34 \div 10$$

$$743 \div 10$$

$$5 \div 10$$

$$57 \div 10$$

$$89 \div 10$$



Review of Key Idea

- When a number is divided by 10, the digits move one place to the right.
- Did you learn that in this lesson?



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