Divide by 2, 5 and 10 Fluency & Precision 2

Lesson 10 – Multiplication & Division – Divide by 2, 5 and 10

NC Objective:

Solve problems involving division by 2, 5 and 10, using materials, arrays, repeated addition, mental methods and multiplication and division facts, including problems in contexts

Resources needed: Differentiated Sheets Teaching Slides

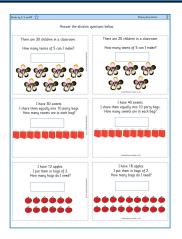
Vocabulary: Divide, sharing, grouping, equal groups, calculation

Children consolidate their knowledge and now divide by 2, 5 and 10. Children look at sharing and grouping.

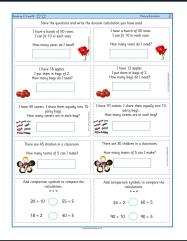
Key Questions:

What can we use to represent the problem?

★ Working Towards



** Working Within



★★★ Greater Depth

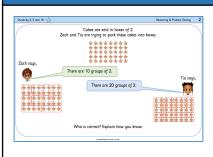


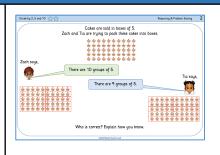
Children write the calculation they have used to solve the problem and have visuals to help them.

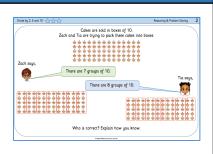
Children write the calculation they have used to solve the problem. If needed, children can cut the questions out and show their working out in their books. They solve comparison calculations.

The children who are efficient in dividing by 2, 5 and 10 solve more complex and comparison questions.

Reasoning & Problem Solving









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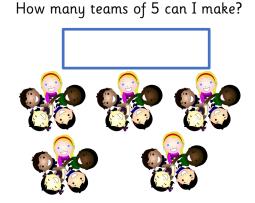
Answer the division questions below.

There are 30 children in a classroom.

How many teams of 5 can I make?



There are 20 children in a classroom.



I have 30 sweets. I share them equally into 10 party bags. How many sweets are in each bag?



I have 40 sweets. I share them equally into 10 party bags. How many sweets are in each bag?



I have 12 apples. I put them in bags of 2. How many bags do I need?



I have 18 apples. I put them in bags of 2. How many bags do I need?



Answer the division questions below.

There are 30 children in a classroom.

How many teams of 5 can I make?

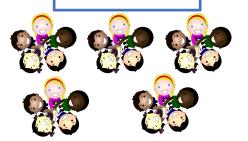
$$30 \div 5 = 6$$



There are 20 children in a classroom.

How many teams of 5 can I make?

$$20 \div 5 = 4$$



I have 30 sweets.

I share them equally into 10 party bags.
How many sweets are in each bag?

$$30 \div 10 = 3$$



I have 40 sweets.

I share them equally into 10 party bags.

How many sweets are in each bag?

$$40 \div 10 = 4$$



I have 12 apples.
I put them in bags of 2.
How many bags do I need?

$$12 \div 2 = 6$$



I have 18 apples.
I put them in bags of 2.
How many bags do I need?

$$18 \div 2 = 9$$



Solve the questions and write the division calculation you have used.

I have a bunch of 50 roses. I can fit 10 in each vase.

How many vases do I need?



I have a bunch of 30 roses. I can fit 10 in each vase.

How many vases do I need?





I have 18 apples. I put them in bags of 2. How many bags do I need?



I have 12 apples. I put them in bags of 2. How many bags do I need?



I have 40 sweets. I share them equally into 10 party bags.

How many sweets are in each bag?



I have 70 sweets. I share them equally into 10 party bags.

How many sweets are in each bag?



There are 45 children in a classroom.

How many teams of 5 can I make?



There are 30 children in a classroom.

How many teams of 5 can I make?



Add comparison symbols to compare the calculations.

Add comparison symbols to compare the calculations.

Solve the questions and write the division calculation you have used.

I have a bunch of 50 roses. I can fit 10 in each vase.

How many vases do I need?

$$50 \div 10 = 5$$



I have a bunch of 30 roses. I can fit 10 in each vase.

How many vases do I need?

$$30 \div 10 = 3$$



I have 18 apples. I put them in bags of 2. How many bags do I need?



$$18 \div 2 = 9$$

I have 12 apples. I put them in bags of 2. How many bags do I need?



$$12 \div 2 = 6$$

I have 40 sweets. I share them equally into 10 party bags.

How many sweets are in each bag?



$$40 \div 10 = 4$$

I have 70 sweets. I share them equally into 10 party bags.

How many sweets are in each bag?



$$70 \div 10 = 7$$

There are 45 children in a classroom.

How many teams of 5 can I make?



$$45 \div 5 = 9$$

There are 30 children in a classroom.

How many teams of 5 can I make?



$$30 \div 5 = 6$$

Add comparison symbols to compare the calculations.



Add comparison symbols to compare the calculations.





Fluency & Precision

Thu 21st Jan Maths

Answer the division questions below.

Zach has 90p in 10p coins.

Esin has 100p in 2p coins.

Rosie has 70p in 5 coins.

Who has the most coins?







Explain how you know.

Zach has 40p in 2p coins.

Esin has 50p in 10p coins.

Rosie has 25p in 5 coins.

Who has the least coins?







Explain how you know.

There are 30 in children Class 2. There are 25 children in Class 3.

Class 2 have teams of 2, Class 3 have teams of 5.

How many teams are there altogether?





There are 65 in children Year 1. There are 62 children in Year 2.

For sports day, they organise Year 1s into teams of 5 and Year 2s into teams of 2.

How many teams are there altogether?

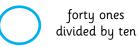




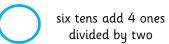
Compare using comparison symbols.

> = <

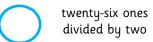
five tens plus fifteen ones divided by five



half of fifty ones divided by five



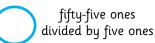
1 ten add sixteen ones divided by two



Compare using comparison symbols.

> = <

three tens plus twenty-five ones divided by five



half of forty ones divided by ten



six tens add 3 tens divided by ten

1 ten add twenty ones divided by ten



fifty ones add fifty divided by two

10

Answer the division questions below.

Zach has 90p in 10p coins. 9 coins

Esin has 100p in 2p coins. 50 coins

Rosie has 70p in 5 coins. 14 coins

Who has the most coins?



Esin



Explain how you know.

Zach has 40p in 2p coins. 20 coins

Esin has 50p in 10p coins. 5 coins

Rosie has 25p in 5 coins. 5 coins

Who has the least coins?



Esin and Rosie



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Explain how you know.

There are 30 in children Class 2. 15 teams
There are 25 children in Class 3. 5 teams

Class 2 have teams of 2, Class 3 have teams of 5.
How many teams are there altogether?

20



There are 65 in children Year 1.13 teams
There are 62 children in Year 2.31 teams

For sports day, they organise Year 1s into teams of 5 and Year 2s into teams of 2.

How many teams are there altogether?



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Compare using comparison symbols.

five tens plus fifteen ones divided by five $65 \div 5 = 13$



forty ones divided by ten $40 \div 10 = 4$

half of fifty ones divided by five



six tens add 4 ones divided by two

$$25 \div 5 = 5$$

 $64 \div 2 = 32$

1 ten add sixteen ones divided by two 26 ÷ 2 = 13



twenty-six ones divided by two $26 \div 2 = 13$

Compare using comparison symbols.



three tens plus twenty-five ones divided by five

 $55 \div 5 = 11$



fifty-five ones divided by five ones

$$55 \div 5 = 11$$

half of forty ones divided by ten $20 \div 10 = 2$

 $30 \div 10 = 3$

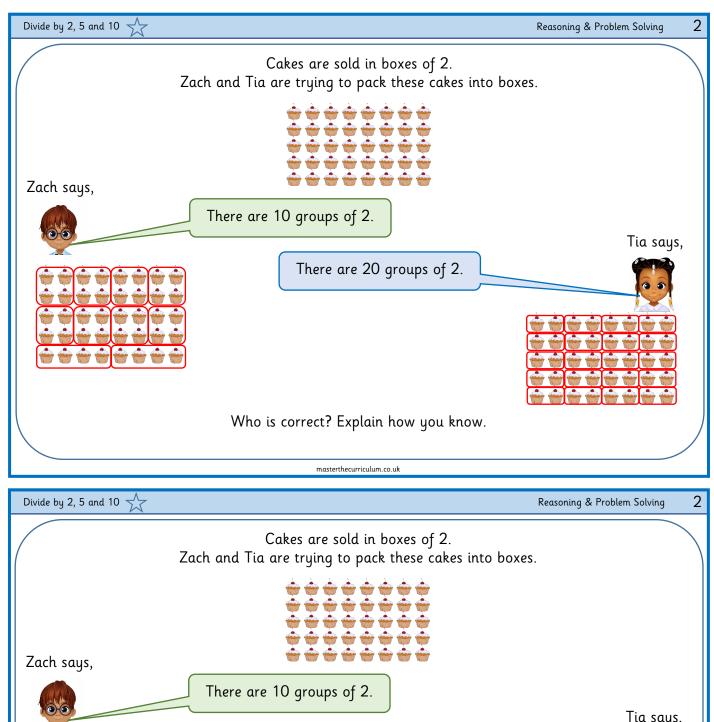


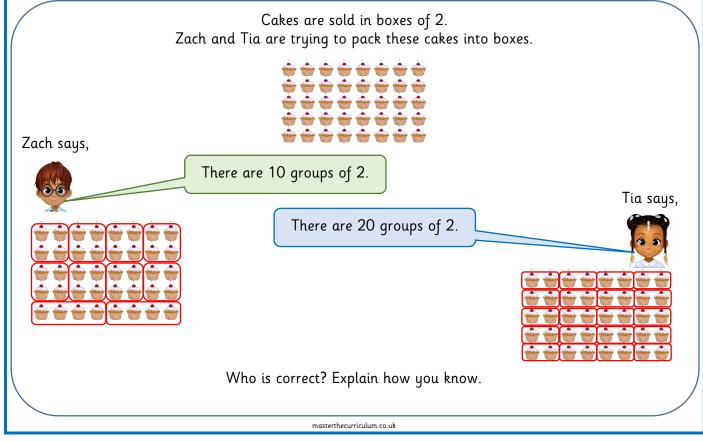
six tens add 3 tens divided by ten 90 ÷ 10 = 9

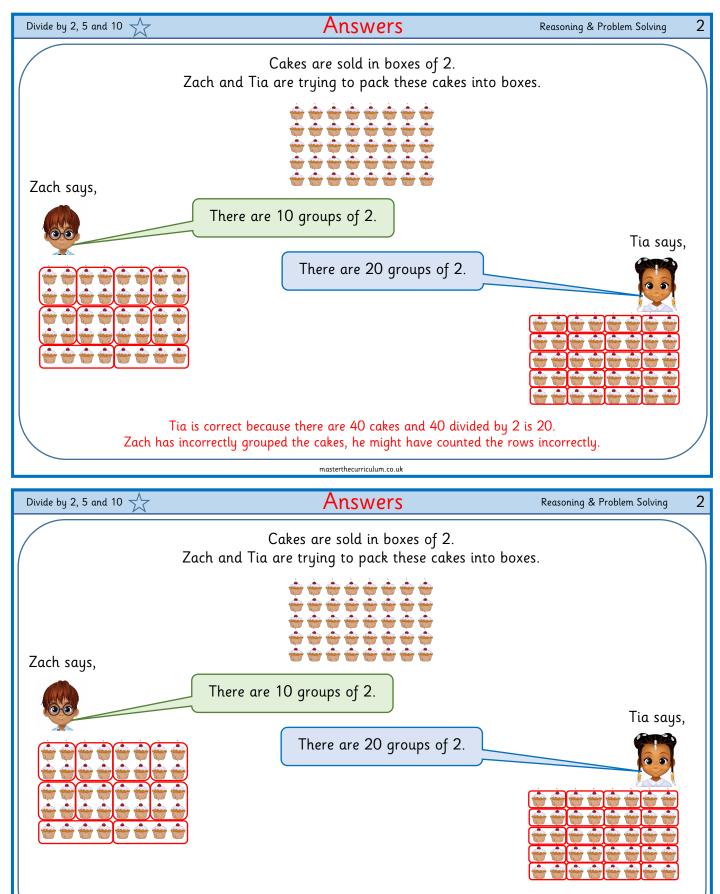
1 ten add twenty ones divided by ten



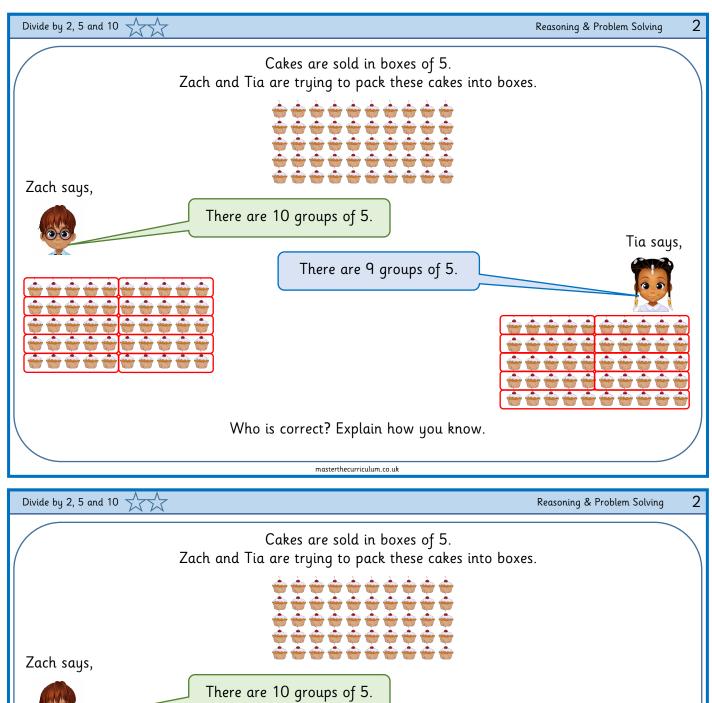
fifty ones add fifty divided by two $100 \div 2 = 50$

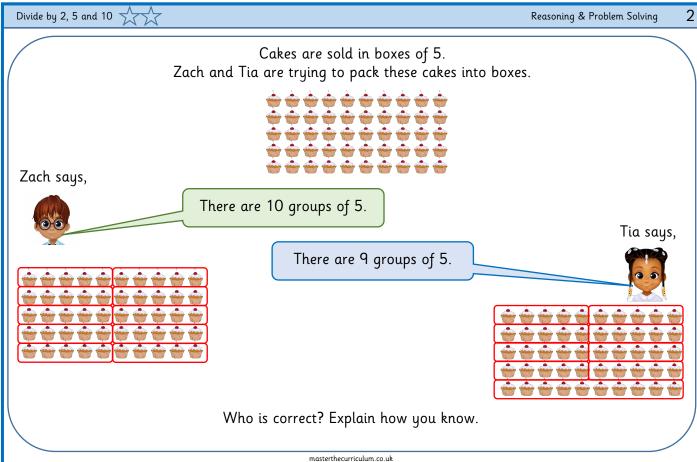


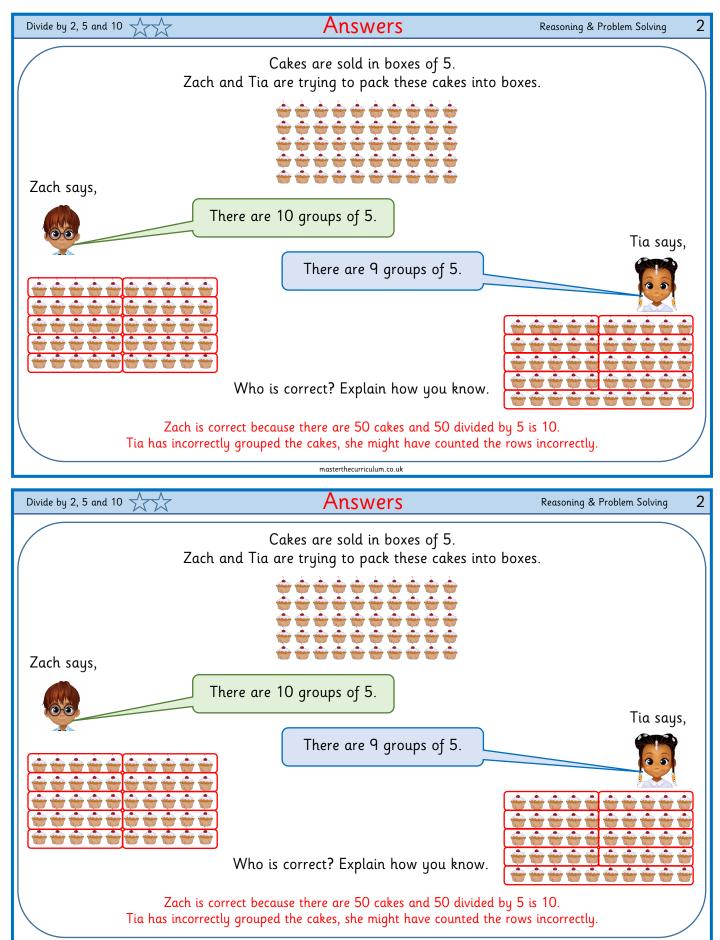




Tia is correct because there are 40 cakes and 40 divided by 2 is 20. Zach has incorrectly grouped the cakes, he might have counted the rows incorrectly.







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