Lesson 10 - Multiplication \& Division - Divide by 2, 5 and 10

| NC Objective: <br> Solve problems involving division by 2,5 and <br> 10, using materials, arrays, repeated addition, <br> mental methods and multiplication and <br> division facts, including problems in contexts | Resources needed: <br> Differentiated Sheets | Veaching Slides |
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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?

| W Working Towards | Working Within | NK 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 |  |  |
|  |  |  |

## Thu 21st Jan Maths

Answer the division questions below.

There are 30 children in a classroom.

How many teams of 5 can I make?


I have 30 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?


There are 20 children in a classroom.

How many teams of 5 can I make?


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

$\qquad$

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?

$$
30 \div 5=6
$$



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

$$
30 \div 10=3
$$

$\square$


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

$$
12 \div 2=6
$$



There are 20 children in a classroom.
How many teams of 5 can I make?

$$
20 \div 5=4
$$



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

$$
40 \div 10=4
$$

$\qquad$

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 18 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?
$\square$

There are 45 children in a classroom.
How many teams of 5 can I make?


Add comparison symbols to compare the calculations.

$$
\begin{gathered}
>=< \\
20 \div 10 \bigcirc 55 \div 5 \\
18 \div 2 \bigcirc 505
\end{gathered}
$$

I have a bunch of 30 roses.
I can fit 10 in each vase.
How many vases do I need?


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


I have 70 sweets. I share them equally into 10 party bags.
How many sweets are in each bag?

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There are 30 children in a classroom.
How many teams of 5 can I make?


Add comparison symbols to compare the calculations.

$$
>=<
$$

$24 \div 2$

$60 \div 5$
$90 \div 10$

$90 \div 5$

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

$$
18 \div 2=9
$$

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

$$
40 \div 10=4
$$

There are 45 children in a classroom.
How many teams of 5 can I make?


$$
45 \div 5=9
$$

Add comparison symbols to compare the calculations.

$$
>=<
$$

$18 \div 2$

$40 \div 5$


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

$$
12 \div 2=6
$$

## 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 30 children in a classroom.
How many teams of 5 can I make?


$$
30 \div 5=6
$$

Add comparison symbols to compare the calculations.

$$
>=<
$$

$$
24 \div 2 \bigcirc 60 \div 5
$$

$$
90 \div 10 \lll 90 \div 5
$$

## Thu 21st Jan Maths

Zach has 90p in 10p coins.
Esin has 100 p in $2 p$ coins.
Rosie has 70p in 5 coins.
Who has the most coins?


Explain how you know.

Zach has 40p in $2 p$ coins.
Esin has 50p in 10p coins.
Rosie has 25 p in 5 coins.
Who has the least coins?


Explain how you know.

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.

$$
>=<
$$

three tens plus twenty-five ones divided by five

fifty-five ones divided by five ones
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

Answer the division questions below.

Zach has 90 p in 10 p coins. 9 coins
Esin has 100 p in 2 p coins. 50 coins
Rosie has 70p in 5 coins. 14 coins
Who has the most coins?



Explain how you know.

Zach has 40p in $2 p$ coins. 20 coins
Esin has 50 p in 10p coins. 5 coins
Rosie has 25 p in 5 coins. 5 coins
Who has the least coins?


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?


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
$64 \div 2=32$
$25 \div 5=5$

Compare using comparison symbols.

$$
>=<
$$

three tens plus twenty-five ones divided by five

fifty-five ones divided by five ones $55 \div 5=11$
half of forty ones divided by ten $20 \div 10=2$

six tens add 3 tens divided by ten $90 \div 10=9$

1 ten add twenty ones divided by ten $30 \div 10=3$
fifty ones add fifty divided by two $100 \div 2=50$

Cakes are sold in boxes of 2.
Zach and Tia are trying to pack these cakes into boxes.

|  | 6 |
| :--- | :--- |
| Zach says, |  |
|  |  |



Tia says,


There are 20 groups of 2.


Who is correct? Explain how you know.

Cakes are sold in boxes of 2 .
Zach and Tia are trying to pack these cakes into boxes.

Zach says,


There are 10 groups of 2 .


Who is correct? Explain how you know.

Cakes are sold in boxes of 2.
Zach and Tia are trying to pack these cakes into boxes.


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.

Cakes are sold in boxes of 2. Zach and Tia are trying to pack these cakes into boxes.

Zach says,


There are 10 groups of 2 .


There are 20 groups of 2.

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.

Cakes are sold in boxes of 5 .
Zach and Tia are trying to pack these cakes into boxes.



Who is correct? Explain how you know.
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Divide by 2,5 and 10
Cakes are sold in boxes of 5 .
Zach and Tia are trying to pack these cakes into boxes.


Zach says, There are 10 groups of 5 .

Tia says,
There are 9 groups of 5 .



Who is correct? Explain how you know.

Cakes are sold in boxes of 5 .
Zach and Tia are trying to pack these cakes into boxes.


Zach is correct because there are 50 cakes and 50 divided by 5 is 10 . Tia has incorrectly grouped the cakes, she might have counted the rows incorrectly.

Cakes are sold in boxes of 5 . Zach and Tia are trying to pack these cakes into boxes.


Zach says, There are 10 groups of 5 .

Tia says,


Who is correct? Explain how you know.


Zach is correct because there are 50 cakes and 50 divided by 5 is 10 . Tia has incorrectly grouped the cakes, she might have counted the rows incorrectly.

Cakes are sold in boxes of 10.
Zach and Tia are trying to pack these cakes into boxes.


Zach says,
There are 7 groups of 10 .
Tia says,
There are 8 groups of 10 .


Who is correct? Explain how you know.
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Divide by 2, 5 and 10

Cakes are sold in boxes of 10 . Zach and Tia are trying to pack these cakes into boxes.


Zach says,


Who is correct? Explain how you know.

Cakes are sold in boxes of 10 . Zach and Tia are trying to pack these cakes into boxes.


Zach says,


There are 7 groups of 10 .
Tia says,


Who is correct? Explain how you know.
Zach is correct because there are 70 cakes and 70 divided by 10 is 7 . Tia has incorrectly grouped the cakes, she might have counted the columns wrong. She hasn't put them in 10 s. She incorrectly assumed there were 10 in each column.

Divide by 2, 5 and 10
Cakes are sold in boxes of 10 . Zach and Tia are trying to pack these cakes into boxes.


Zach says,


There are 8 groups of 10 .


Who is correct? Explain how you know.


Zach is correct because there are 70 cakes and 70 divided by 10 is 7 . Tia has incorrectly grouped the cakes, she might have counted the columns wrong. She hasn't put them in 10s. She incorrectly assumed there were 10 in each column.

