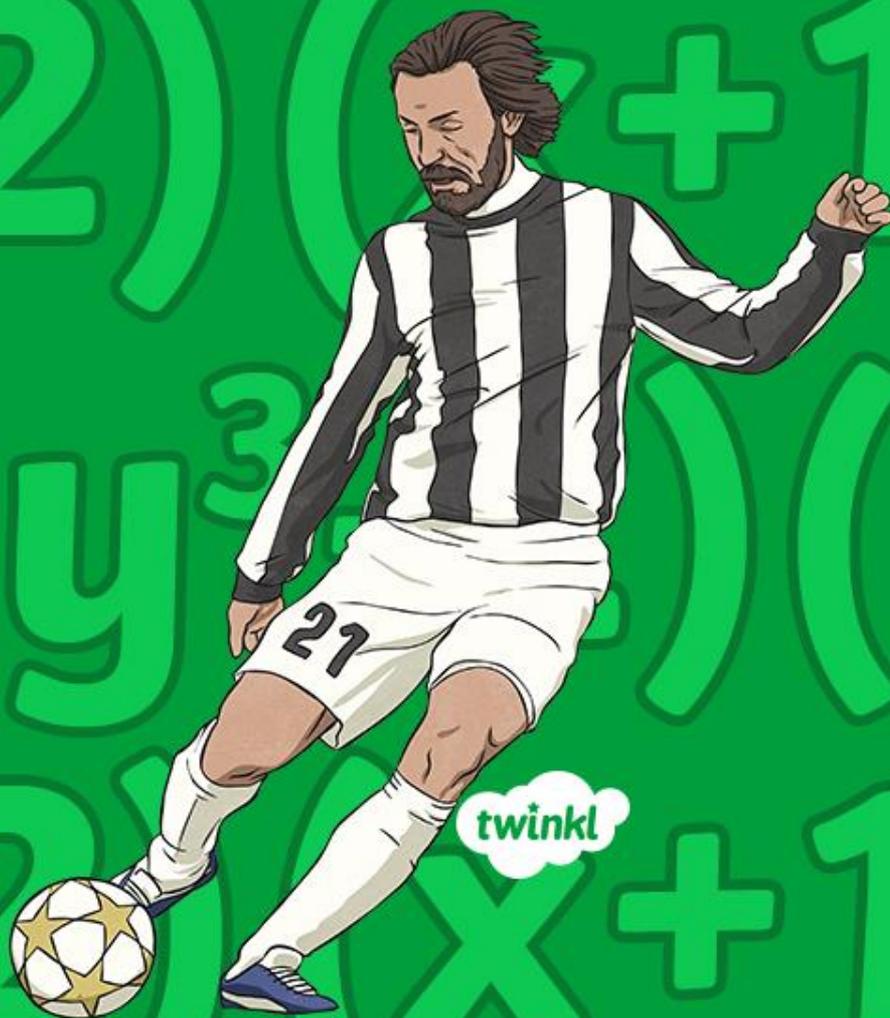




# Mathematics

Number and Algebra

# The Elevens



# Aim

- I can multiply and divide by eleven.

# Success Criteria

- I can count in eevens.
- I can recognise multiples of 11 up to at least  $10 \times 11$ .
- I can use my knowledge of the 11 times table to find the related division facts.
- I can predict and explain patterns.



# Let's Count in Elevens



The 11 times table is really easy. Let's count in 11s together.

0

11

22

33

44

55

66

77

88

99

110

121

132



Can you explain why the 11 times table is easy to remember?

# Predicting Multiples of Eleven



What do you think will happen if we continue to count in 11s?

Work out these multiples in pairs. What patterns can you see?

$10 \times 11 =$

110

$16 \times 11 =$

176

$11 \times 11 =$

121

$17 \times 11 =$

187

$12 \times 11 =$

132

$18 \times 11 =$

198

$13 \times 11 =$

143

$19 \times 11 =$

209

$14 \times 11 =$

154

$20 \times 11 =$

220

$15 \times 11 =$

165

# How Many Footballers?



There are 11 players in a football team.

How many footballers are there in six teams?



How many footballers are there in 11 teams?



How many teams could you make with 132 footballers?



How many teams could you make with 165 footballers?



# The Elevens Activity



**The Elevens**

I can multiply and divide by eleven.

1  $77 \div \underline{\quad} = 11$

2 One hundred and ten divided by eleven equals  $\underline{\quad}$

3  $99 = \underline{\quad} \times 11$

4 11 multiplied by 6 =  $\underline{\quad}$

5 The product of 11 and eight is  $\underline{\quad}$

6 If I split 66 children into 11 groups, how many would be in each group?  $\underline{\quad}$

7 Which of these numbers is NOT a multiple of 11?  
121, 55, 66, 108, 33  
 $\underline{\quad}$

8  $0 \times 11 = \underline{\quad}$

9 Circle the multiples of 11:  
22, 36, 54, 44, 110, 100, 132

10  $132 = 11 \times \underline{\quad}$

11 Can you write your own word problems to test your partner's 11 times table knowledge?

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**The Elevens**

I can multiply and divide by eleven.

1  $121 \div \underline{\quad} = 11$

2 One hundred and ten divided by eleven equals  $\underline{\quad}$

3  $176 = \underline{\quad} \times 11$

4 11 multiplied by 15 =  $\underline{\quad}$

5 The product of 11 and 18 is  $\underline{\quad}$

6 If I split 165 children into 11 groups, how many would be in each group?  $\underline{\quad}$

7 Which of these numbers is NOT a multiple of 11?  
121, 55, 176, 108, 33  
 $\underline{\quad}$

8  $20 \times 11 = \underline{\quad}$

9 Circle the multiples of 11:  
36, 54, 44, 110, 165, 187, 100, 132

10  $132 = 11 \times \underline{\quad}$

11 Can you write your own word problems to test your partner's 11 times table knowledge?

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# 11 Times Table Test



$5 \times 11 =$

55

$8 \times 11 =$

88

$110 \div 11 =$

10

$22 \div 11 =$

2

$1 \times 11 =$

11

$3 \times 11 =$

33

$44 \div 11 =$

4

$77 \div 11 =$

7

$11 \times 11 =$

121

$6 \times 11 =$

66

$99 \div 11 =$

9

$132 \div 11 =$

12

# Five to Five



Summarise today's lesson in **5** sentences.

Can you summarise today's lesson in **5** words?



# Aim



- I can multiply and divide by eleven.

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$(y^3 - 2)(x + 1)(y - 2)$

