## Yews 2 Cownt in Steps off 2so

 $33_{0} 58$ and 103 Place Value Challenge CardsYear 2 Count in Steps of $2 \mathrm{~s}, 3 \mathrm{~s}, 5 \mathrm{~s}$ and 10s Place Value Maths Mastery

## I will only say even numbers when I count in 10s.

 Am I correct? Can you demonstrate your thinking with equipment?

Year 2 Count in Steps of 2s, 3s, 5s and 10s Place Value Maths Mastery
I have 30 counters and I want to put them into equal groups with no leftovers.

Can you predict what groups I can make?
Use counters to see if you have found them all.


Use equipment to compare counting in 5 s and counting in 10s. Can you describe what you see?

Use equipment to compare counting in 2 s and counting in 3s. Can you describe what you see?


Year 2 Count in Steps of 2s, 3s, 5s and 10s Place Value Maths Mastery
Coloured pens come in packets of different sizes.

Ben wants to buy exactly 25 pencils of the same colour. What colour could he buy?

Alice needs 30 pencils of the same colour. What colour could she buy?

Can you explain why Alice has more choice of colours than Ben?



Li says she is counting in 2 s .
Do you agree? Can you explain your answer?

Year 2 Count in Steps of $2 \mathrm{~s}, 3 \mathrm{~s}, 5 \mathrm{~s}$ and 10s Place Value Maths Mastery When I count in multiples of 2 or 10 , I always say even numbers. Why do I not say only odd numbers when I count in multiples of 3 or 5 ?

Can you answer Hamish's question?
Can you show your thinking using equipment?
How could what we have noticed help us with our counting patterns?
or $\mathbf{2}$ odds together for an odd pattern, we have also made a mistake.
 Knowing this can help us check. If we say an odd number when counting in How could what we have noticed help us with our counting patterns? will alternate as two odd numbers make an even number. Adding even numbers will always make another even number, but adding odd numbers ¿łuәud!̣nba бu!̣s би!̣чu!̣ł ınоЋ мочs nof uрכ
in multiples of $\mathbf{2}$ because her starting number wasn't an even number. Yes, she is counting in 2 s because she is adding 2 each time. She is not counting
 Because of place value, a ten has zero ones. Adding zero to a number
30 is a multiple of $2,3,5$, and 10.25 is only a multiple of 5 .
Can you explain why Alice has more choice of colours than Ben?
red, blue, green or black
Alice needs 30 pencils of the same colour. What colour could she buy? green
Ben wants to buy exactly 25 pencils of the same colour. What colour could he buy? to make the equivalent number of tens. 25 s make a ten so you need double the number of 5 s Can you explain the pattern?
The tens are going up in ones, the 5 s are going up in 2 s , but they have the same answer.
 make an even number and every multiple of $\mathbf{2}$ is even. Every other multiple of $\mathbf{3}$ is also a multiple of 2 because 2 odd numbers
Every other multiple of 5 is also a multiple of 10 because 25 s make 10 .
Equal groups of $1,2,3,5,6,10,15,30$ can be made.
However, if you start with an odd number, every number will be odd.
It depends. If you start with a multiple of 10 , every number will be even. 1. Yes, because $\mathbf{2} 5 \mathrm{~s}$ go together to make a 10.
10s Place Value Maths Mastery Answers
Year 2 Count in Steps of 2s, 3s, 5s and

