

AFRICAN INSTITUTE FOR MATHEMATICAL SCIENCES SCHOOLS ENRICHMENT CENTRE (AIMSSEC)

**AIMING HIGH** 

## PARTY BISCUIT DECORATIONS



Chloe decorated 12 biscuits to take to her friend's Birthday party. She lined them up and put green icing on every second biscuit. She put a red cherry on every third biscuit and a white chocolate button on every fourth biscuit. How many biscuits had no decoration? How many biscuits had at least two decorations? How many biscuits had only one decoration? Which one are they? Did any biscuits get all three decorations?

## Help

Perhaps you could sketch the biscuits or use the sheet below and cut out the circles and decorations.

The second biscuit has icing on it. Which other biscuits have icing on?

Which biscuits have a cherry on them as well as the third one?

What about the biscuits with a chocolate button on them? Which ones are they?

## Extension

This is called skip counting.

Use a greater number of biscuits and different combinations of skip counting or investigate other possibilities.

Can you find a combination of skip-counting that allows every biscuit to be decorated?



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