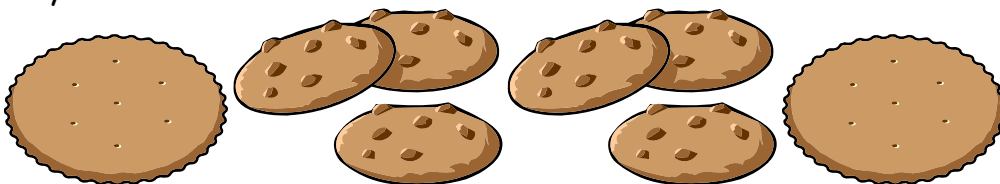


Decorating biscuits

Nicole is baking 100 biscuits for the school fete. She becomes bored with decorating the biscuits so she decides to vary the decoration.



- She puts a nut on every third biscuit
- She spreads white icing on every fourth biscuit
- She places a cherry on every fifth biscuit

When she has finished all 100 biscuits

- How many will have icing and a nut and a cherry?
 - How many will have two of the toppings?
 - How many will have no topping at all?

What patterns can you find in the way the toppings are placed on the 100 biscuits ?

Learning and Teaching Objectives

- Decide on the information needed and continue the pattern
- Predict the next few terms in a sequence
- Describe a rule of a pattern or relationship in words or pictures

Decorating Biscuits Solution

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
		N	I	C	N		I	N	C		N I			N C	I		N		I C
21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
N			N I	C		N	I		N C		I	N		C	N I			N	I C
41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60
	N		I	N C			N I		C	N	I		N	C	I	N			N I C
61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80
		N	I	C	N		I	N	C		N I			N C	I		N		I C
81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
N			N I	C		N	I		N C		I	N		C	N I			N	I C

- Only one biscuit will have all three toppings
- 16 biscuits have two toppings
- 40 biscuits have no topping

Children could create own rules for decorating biscuits