Mathematical Reasoning and Problem Solving

Year 1 Place Value: Counting in 2s, 5s and 10s

Use your understanding of place value to explain your thinking to the problems below.
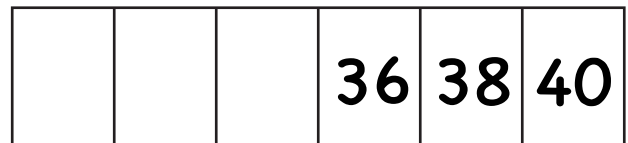

Who is correct?

Mali: When counting in 2s, the number will end in either a 0 , 2 , 4 , 6 or 8

Jack: When counting in 2s, the number will always end in either a 2 , 3 , 4 or 6

Counting back from 40 in 2s, complete the sequence.

			36	38	40

If you continue counting back in 2s, will you say the number 22?

Is Aimee correct?

5

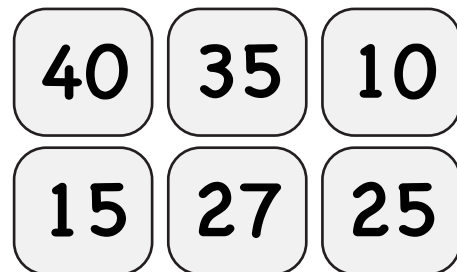**Aimee:** I am using the fingers on my hand to count in 5s from zero. To make 40, I will use my hand 7 times.

Which is the odd one out?

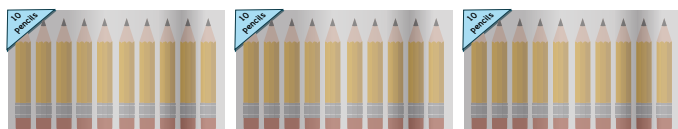| 40	35	10
15	27	25

Abdul's teacher has asked him to give 1 pencil to every child in his class.
Each pack has 10 pencils.

Abdul

a) Will he have enough pencils for a class of 28 children?
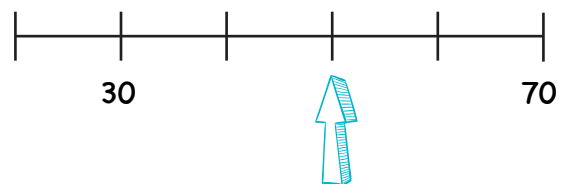
b) Will any pencils be left over?

Chloe: The arrow is pointing to to 60

30   70

Is Chloe correct? Explain.

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Answers

Who is correct?

Mali

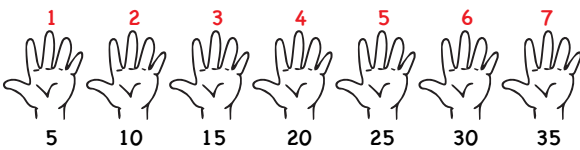When counting in 2s, the number will end in either a 0 , 2 , 4 , 6 or 8

Mali is correct.
e.g. 2, 4, 6, 8, 10, 12, 14, 16, 18, 20

Counting back from 40 in 2s, complete the sequence.
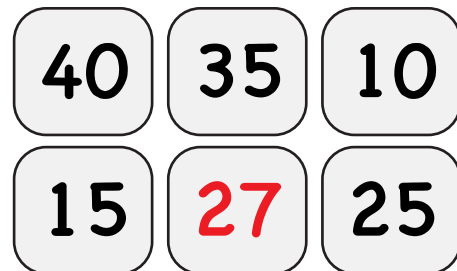
30	32	34	36	38	40

If you continue counting back in 2s, will you say the number 22?

Yes if you comntinue to count back in 2s. The number 22 is in the sequence
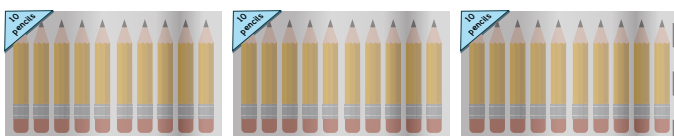

Aimee is incorrect

1	2	3	4	5	6	7
5	10	15	20	25	30	35

7 hands of 5
makes 35 not 40

Which is the odd one out?

40	35	10
15	27	25

27 is the odd one out.
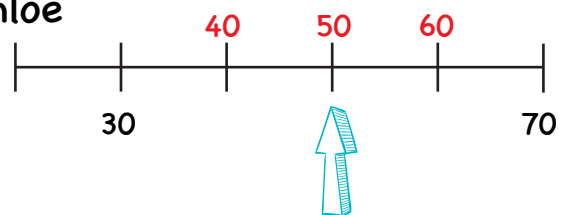All the others are spoken when counting in 5s

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a) There are 3x10 = 30 pencils
There will be enough pencils for each child in a class of 28

b) 2 pencils will be left over

Chloe

The arrow is pointing to to 60

30   40   50   60   70

Chloe is incorrect. Counting in 10s, the arrow points to 50