1. The numbers in this sequence increase by 7 each time.

1 8 15 22 29 ....

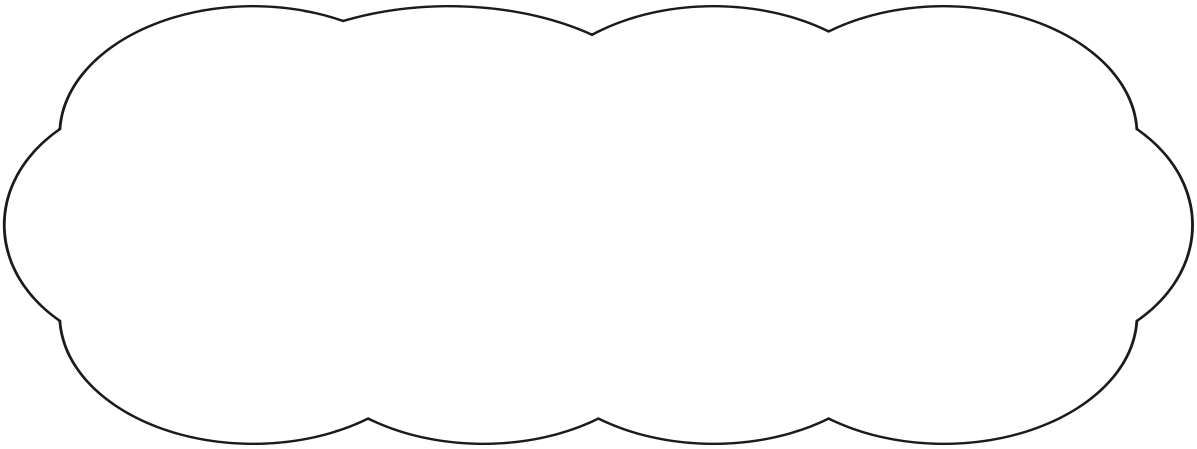
The sequence continues in the same way.

Will the number 777 be in the sequence?

Circle **Yes** or **No**.

Yes / No

Explain how you know.



2. This sequence of numbers **goes up by 40** each time.

40 80 120 160 200 …

This sequence continues.

Will the number **2140** be in the sequence?

Circle Yes or No.

Yes / No

Explain how you know.

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3. Here is a number chart.

Every third number in the chart has a circle on it.

1	2	(3)	4	5
(6)	7	8	(9)	10
11	(12)	13	14	(15)
16	17	(18)	19	20
(21)	22			

The chart continues in the same way.

Here is another row in the chart.

Draw the missing circles.

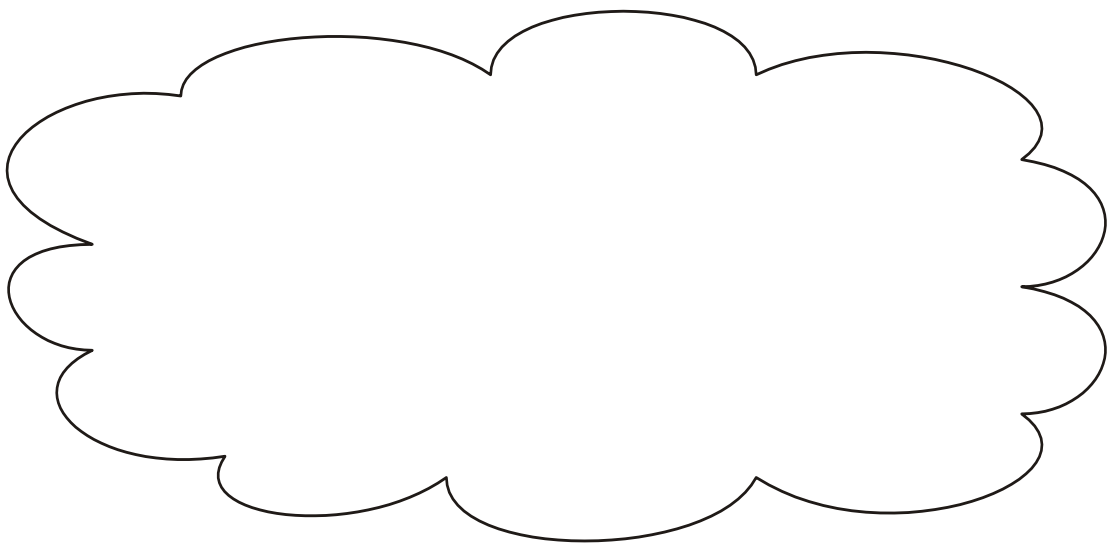
71	72	73	74	75

Will the number **1003** have a circle on it?

Circle **Yes** or **No**.

Yes / No

Explain how you know.



4. The rule for this sequence of numbers is **'add 3 each time'.**

1 4 7 10 13 16 …

The sequence continues in the same way.

Mary says,

'No matter how far you go there will never be a multiple of 3 in the sequence' .

Is she correct?

Circle Yes or No. **Yes / No**

Explain how you know.

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5. Julie says,

'I added three odd numbers and my answer was 50'

Explain why Julie cannot be correct.

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6. Amir says,

'All numbers that end in a 4 are multiples of 4'.

Is he correct?

Circle **Yes** or **No**.

Yes / No

Explain how you know.

7. Nisha says,

'When you halve any even number,
the answer is always an odd number'.

Is she correct?
Circle **Yes** or **No**.

Yes / No

Explain how you know.

8. John says,

'Every multiple of 5 ends in 5'

Is he correct?

Circle Yes or No.

Yes / No

Explain how you know.

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9. Nadia is working with **whole** numbers.

She says,

'If you add a two-digit number to a two-digit number you cannot get a four-digit number'.

Is she correct? Circle Yes or No. **Yes / No**

Explain why.

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