

Calendar Quest Unit One
Ancient Aegean Numerals Counting By Nines

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Directions

Set up

1. Print one copy of the calendar pieces on white cardstock
2. Cut out the calendar pieces
3. Place the cards face down on a calendar or calendar pocket chart
4. Create the Calendar Quest observation chart

Daily Activities

Day 1 - Introducing the Calendar Quest

1. Gather students where they can clearly see the Calendar Quest and blank observations chart.
2. Invite students to share what they notice about the Callender Quest and observations chart
3. Invite students to share what they wonder about the Callender Quest and observations chart
4. Reveal the cards for the days that have already passed (IE if it's the 5th display cards for the 1st, 2nd, 3rd and 4th.)
5. Make observations about the cards that have already been revealed
6. Fill in the observation chart for the days that have already been revealed(date, colour, Ancient Aegean numeral and observations)
7. Make predictions for today's card
8. Reveal todays card
9. Share what you notice and wonder
10. Make predictions for what could be on the card tomorrow

Days 2-11 Updates

- Repeat as for day one

Day 12 – The Decoder Key

1. Gather students where they can clearly see the Calendar Quest and blank observations chart.
2. Invite students to share what they notice about the Callender Quest and observations chart
3. Invite students to share what they wonder about the Callender Quest and observations chart

4. Post the decoder key only showing the top line (ones place)
5. Invite students to share what they notice and make any connections they can between the posted Calendar Quest cards and the newly revealed information
6. Reveal the second line of the Decoder Key (10s place)
7. Invite students to share what they notice and make any connections they can between the posted Calendar Quest cards and the newly revealed information
8. Ask students to figure out what the value of any un known symbols are
9. Ask students to make connections between Ancient Aegean Numerals and modern Hindu-Arabic numerals

Day 13

1. Gather students where all can clearly see the Calendar Quest chart
2. Invite students to share any new thoughts or observations since the reveal the previous day
3. Pair students up and have each pair come up with equations for one day
4. Share the equations out to the class

Day 14-19 - Updates

- Update the observation chart for each day

*Day 20 – Calendar Extender ** Assessment Component*

1. Pass out the calendar extender sheet
2. Students work independently to complete the sheet for the coming week
3. Collect and assess completed calendar extender sheets

Calendar Quest Key and Observation Chart

Fill the chart in with the students as you go through the Calendar Quest activities this month

Do not reveal the translation from Ancient Aegean to modern numerals until day 12

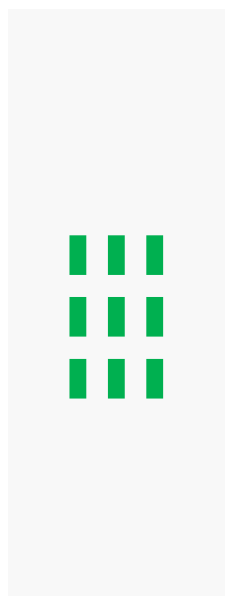
This chart is for your reference only, record student observations and thinking on your chart as you go through the Calendar Quest .

Date	Colour	Ancient Aegean Numeral	Modern Numeral	Equation	Observations
1.	Green	⋮	9	9x1	
2.	Blue	- ⋮	18	9+9 9x2	
3.	Green	= ⋮	27	18+9 9+9+9 9x3	
4.	Blue	≡ ⋮	36	18+18	
5.	Green	== ⋮	45		
6.	Blue	≡= ⋮	54		
7.	Green	≡≡ ⋮	63		
8.	Blue	≡≡ " ⋮	72		
9.	Green	≡≡ ⋮	81		
10.	Blue	≡≡≡ ⋮	90		
11.	Green	≡≡≡ ⋮	99		

12.	Blue	○ ≡≡≡	108		
13.	Green	○ - ≡≡≡	117		
14.	Blue	○ = ≡≡≡	126		
15.	Green	○ ≡≡ ≡≡	135		
16.	Blue	○ == ≡≡	144		
17.	Green	○ ≡≡≡ ≡≡	153		
18.	Blue	○ ≡≡≡ ≡≡	162		
19.	Green	○ ≡≡≡ ≡≡	171		
20.	Blue	○ ≡≡≡ ≡≡	180		
21.	Green	○ ≡≡≡ ≡≡≡	189		
22.	Blue	○ ≡≡≡ ≡≡≡	198		
23.	Green	○○ ≡≡≡	207		
24.	Blue	○○ - ≡≡≡	216		
25.	Green	○○ = ≡≡≡	225		
26.	Blue	○○ ≡≡ ≡≡	234		
27.	Green	○○ == ≡≡≡	243		

28.	Blue	∞ ≡ "	252		
29.	Green	∞ ≡ '	261		
30.	Blue	∞ ≡	270		
31.	Green	∞ ≡ ≡	279		

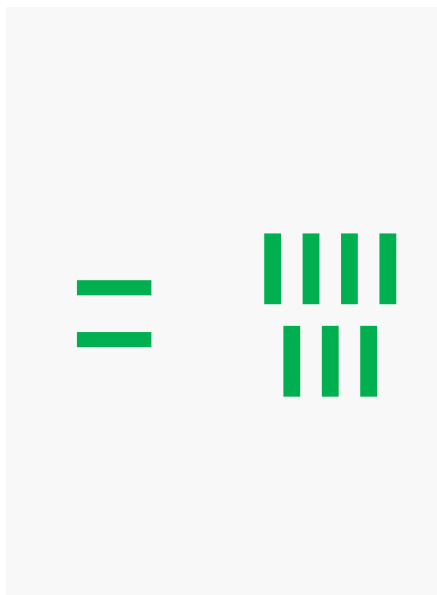
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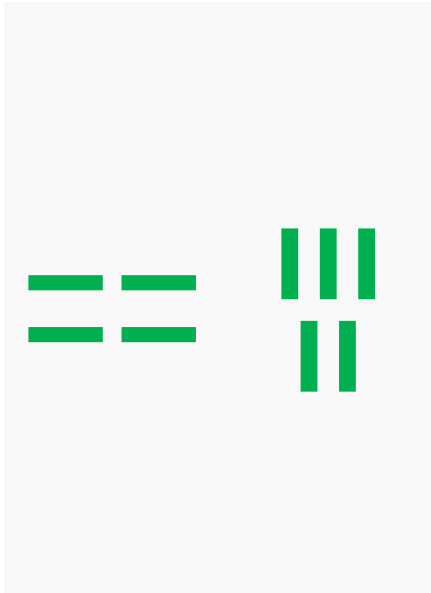
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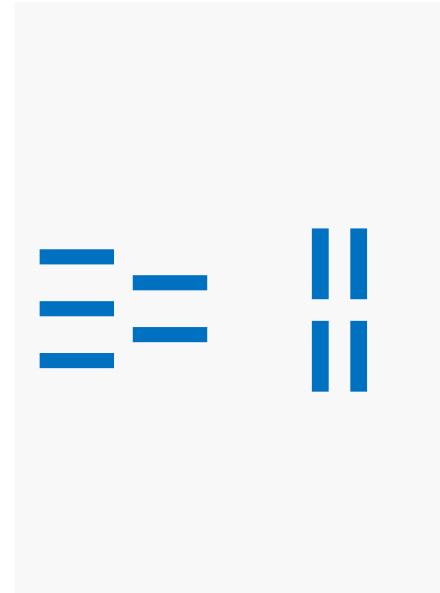
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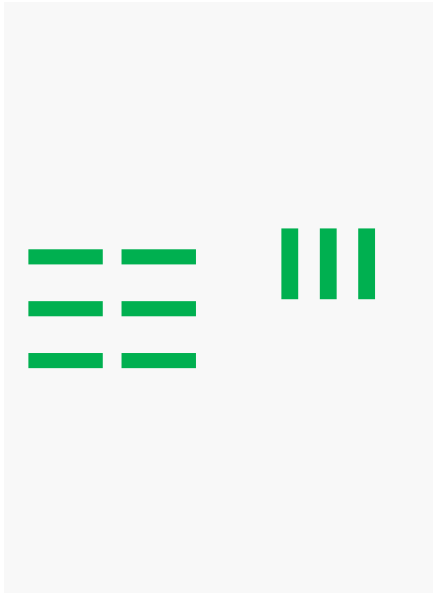
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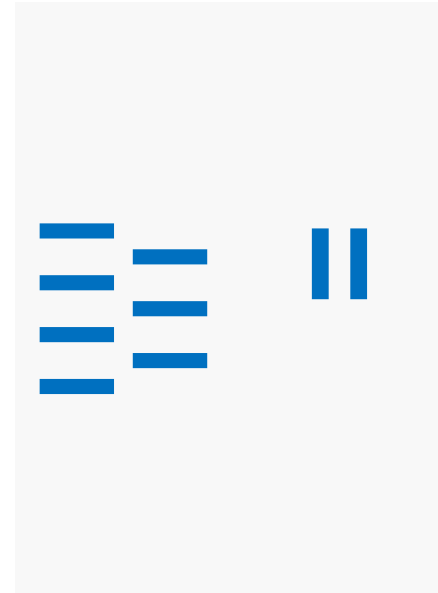
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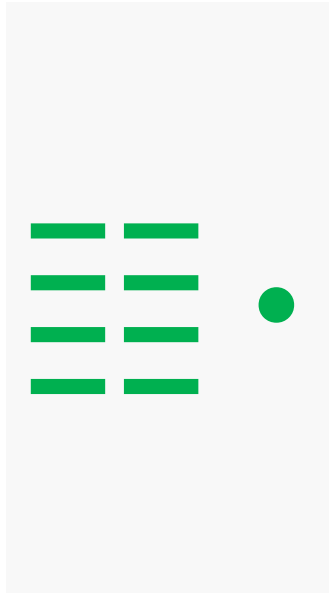
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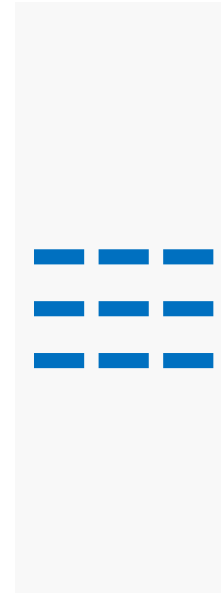
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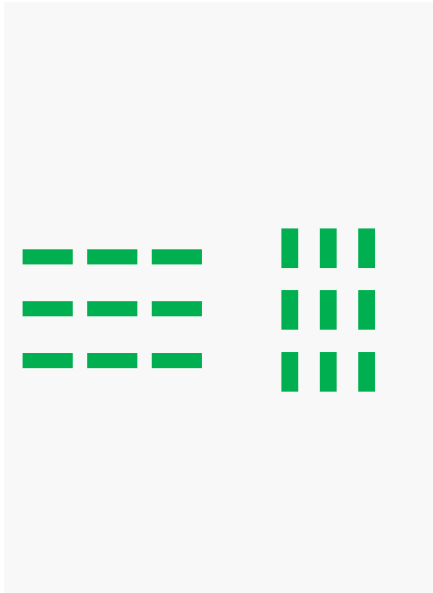
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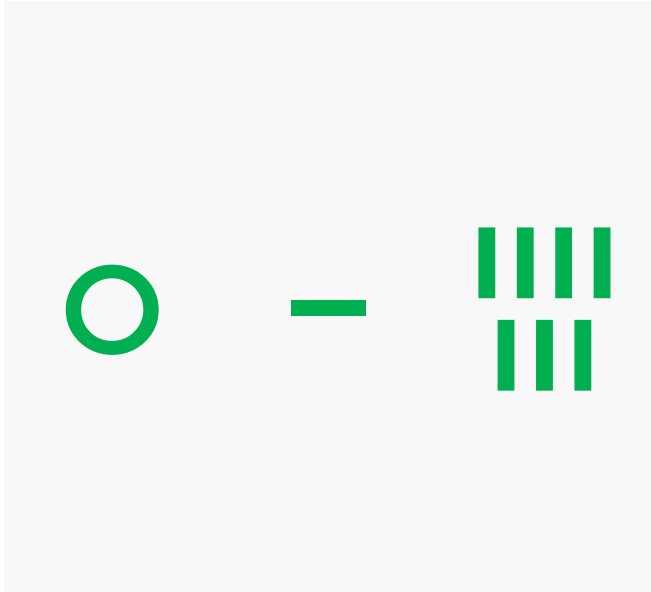
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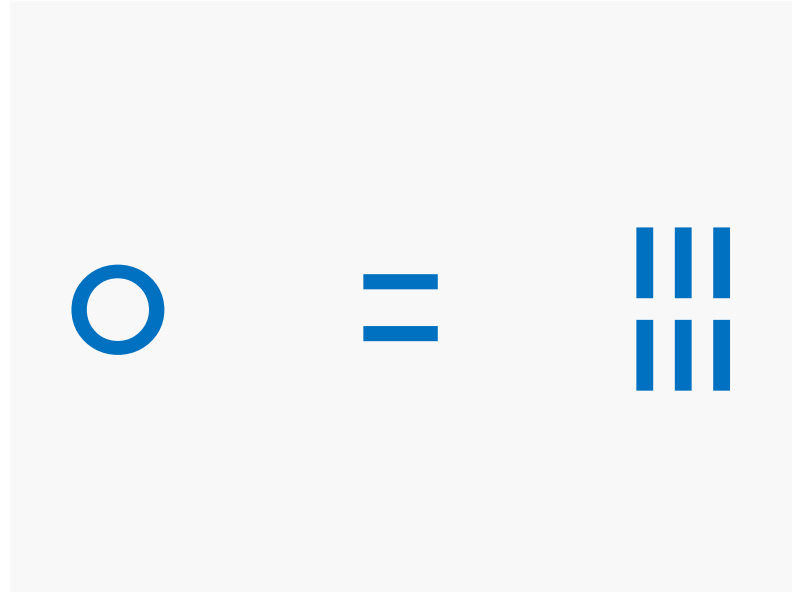
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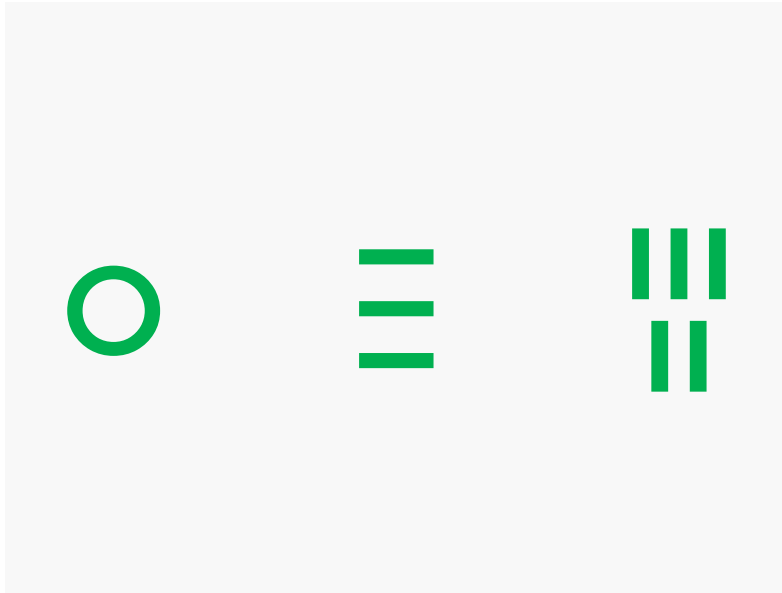
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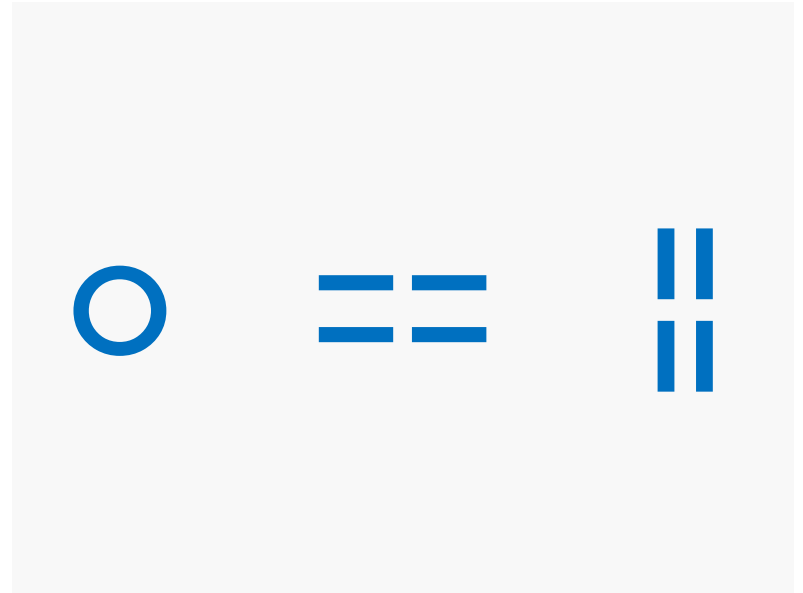
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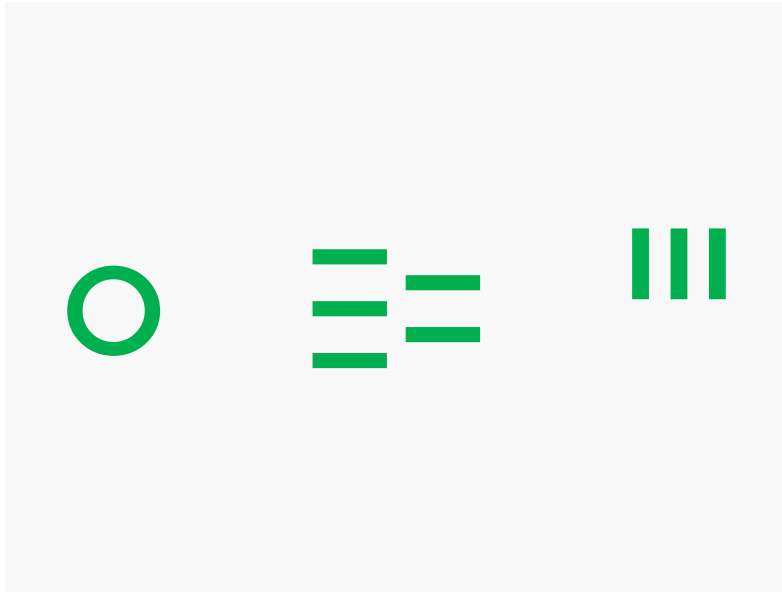
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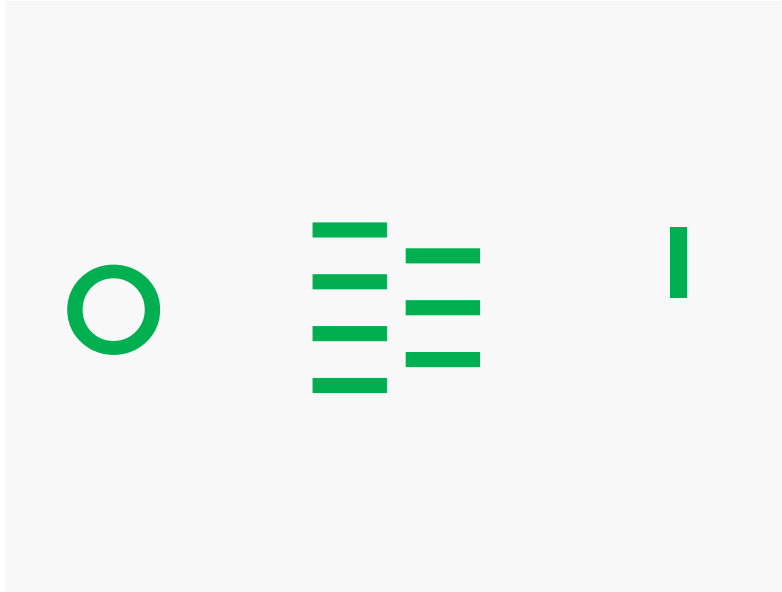
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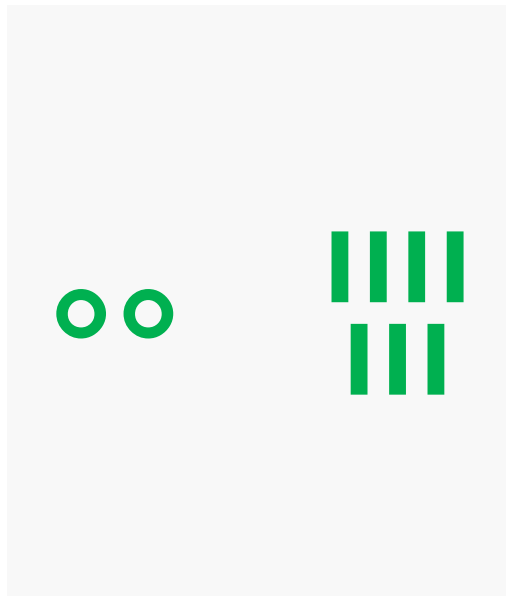
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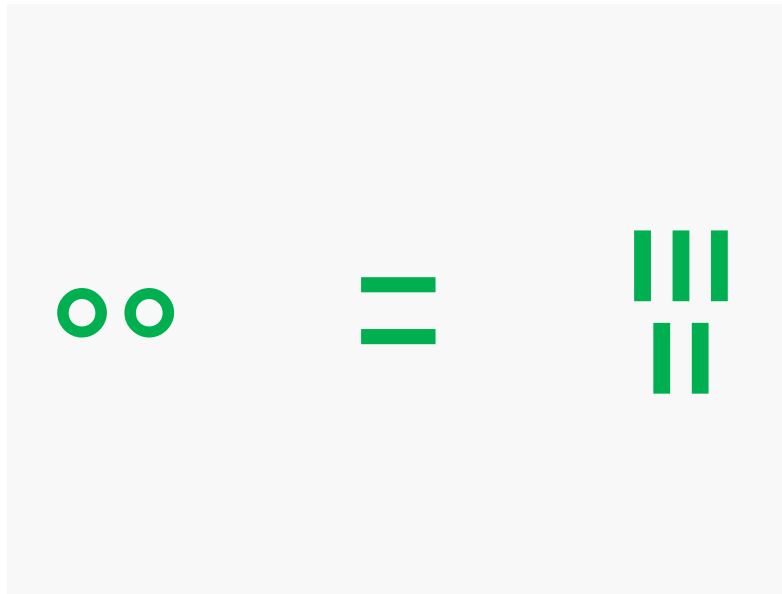
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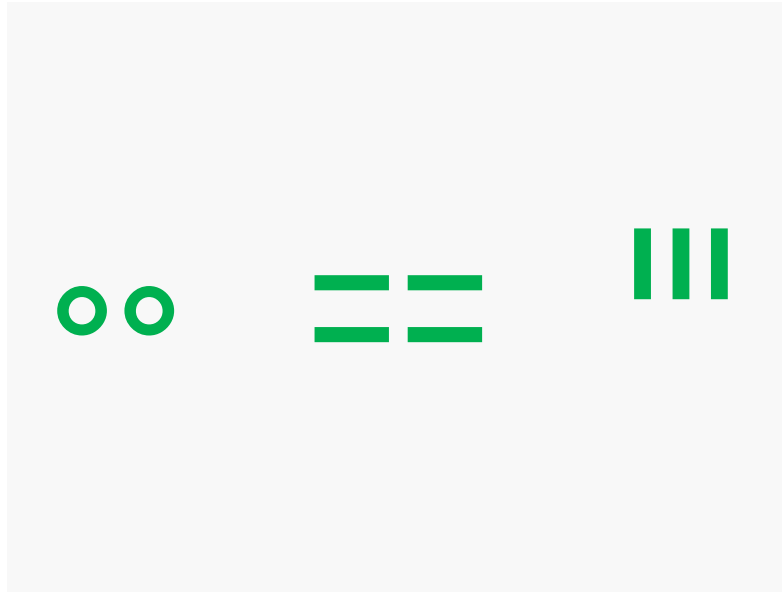
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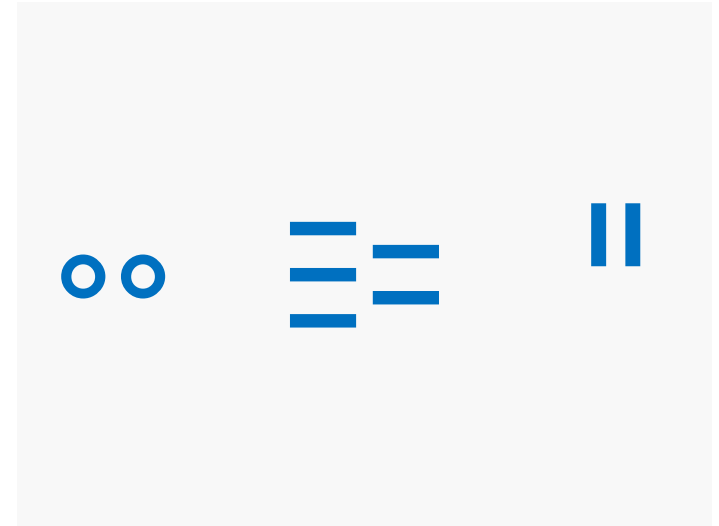
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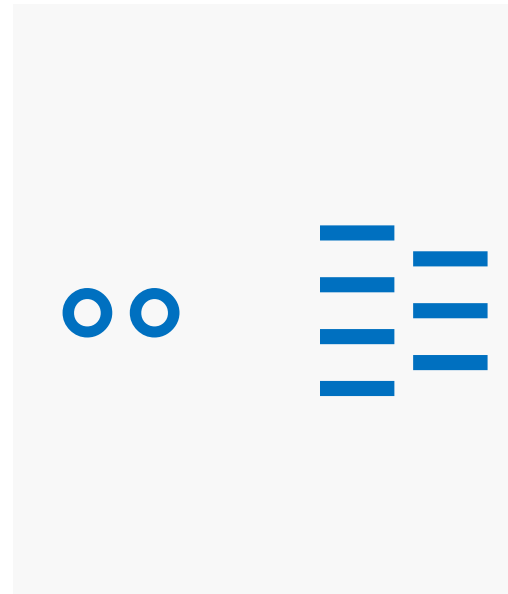
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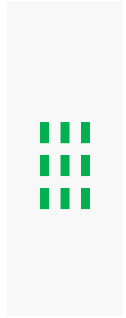
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Decoder Key

<i>Ancient Aegean Numeral</i>	<i>Modern Numeral</i>
	1
-	10
○	100
⊖	1000
⊖	10 00

1



2



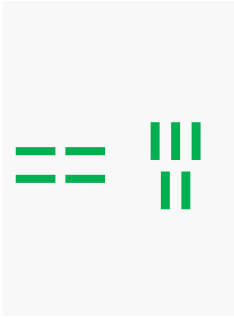
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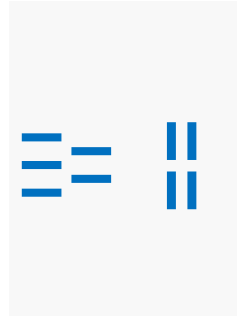
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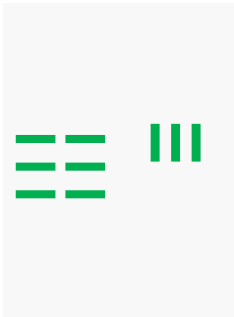
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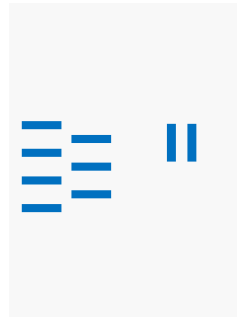
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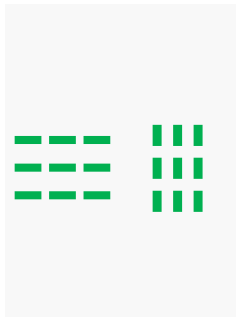
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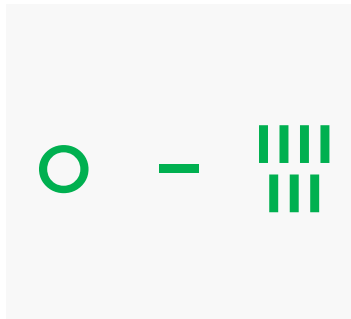
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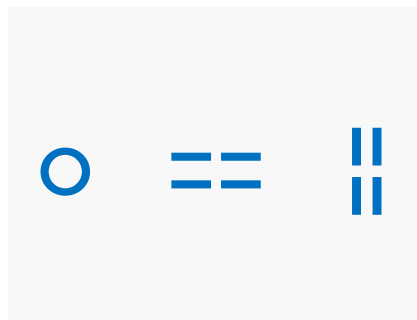
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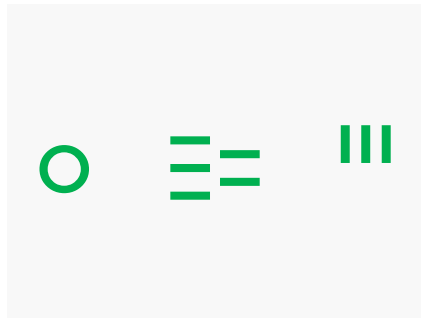
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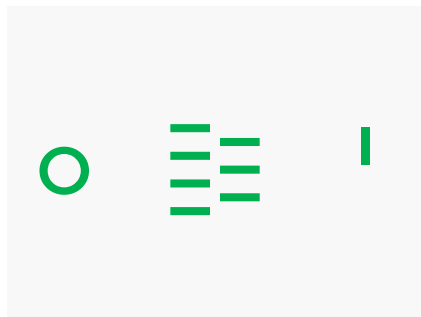
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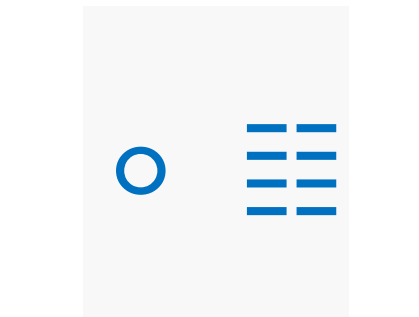
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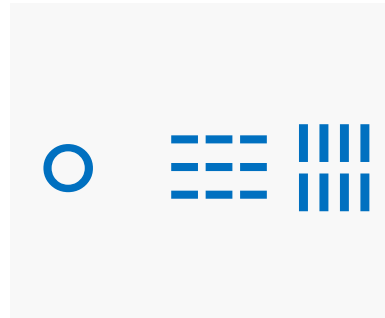
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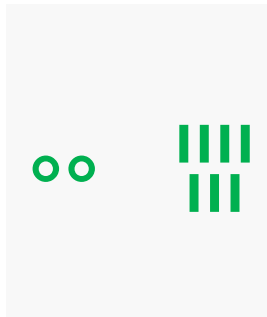
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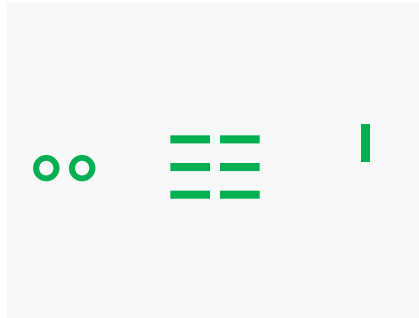
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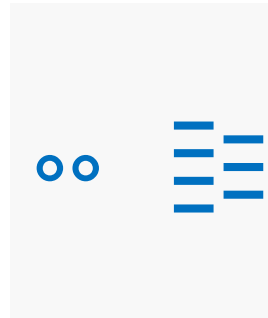
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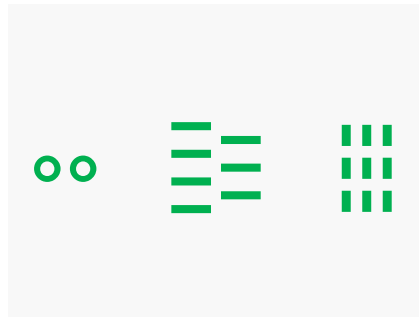
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30



31



Calendar Extender

Name: _____ Month: _____ Pattern: _____

Complete one box for each of the next 8 days. Make sure you include the date, and all elements of the pattern.

