

# CTSC MATHS THINKER

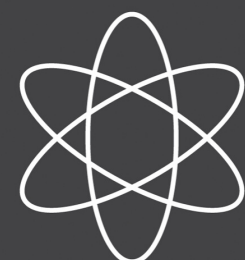
Number Patterns - Grade 4

1

3

5

7



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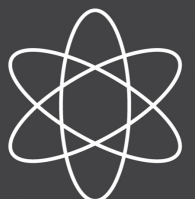
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## Number Patterns - Grade 4

**A number pattern is a sequence of numbers that follow a certain rule:**

**For example:**

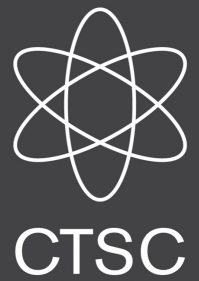
<b>Pattern</b>	<b>Rule</b>	<b>Proof</b>
<b>1, 2, 3, 4, 5</b>	<b>Add 1</b>	<b><math>1+1=2+1=3+1=4+1=5</math></b>
<b>50, 40, 30, 20, 10</b>	<b>Subtract 10</b>	<b><math>50-10=40-10=30-10=20-10=10</math></b>



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## Number Patterns - Grade 4

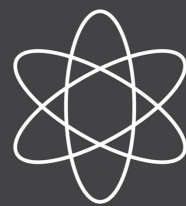


**Write the next number in the sequence. Then write what the rule and proof is for this sequence**

Pattern	Rule	Proof
2, 4, 6, 8, 10, 12, ___		
3, 6, 9, 12, 15, 18, ___		
23, 20, 17, 14, 11, 8, ___		
4, 14, 24, 34, 44, 54, ___		
52, 44, 36, 28, 20, 12, ___		
7, 14, 21, 28, 35, 42, ___		

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## Number Patterns - Grade 4



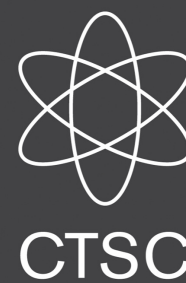
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Write the next number pattern and proof according to the rule

Rule	Pattern	Proof
Add 5	55, __, __, __, __, __, __	
Subtract 11	88, __, __, __, __, __, __	
Add 9	3, __, __, __, __, __, __	
Subtract 6	36, __, __, __, __, __, __	
Add 7	22, __, __, __, __, __, __	
Subtract 8	80, __, __, __, __, __, __	

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Write the next number pattern and proof according to the rule

Proof	Pattern	Rule
$24-4=20-4=16-4=12-4=8-4=4-4=0$		
$6+5=11+5=16+5=21+5=26+5=31+5=36$		
$89-3=86-3=83-3=81-3=78-3=75-3=72$		
$112+10=122+10=132+10=142+10=152+10=162+10=172$		
$63-7=56-7=49-7=42-7=35-7=28-7=21$		
$2+12=14+12=26+12=38+12=50+12=62+12=74$		