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Number Patterns - Year 1

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NUMBER PATTERN JUMPS

COUNT
BY 2s

$+2$ $+2$ $+2$ $+2$ $+2$ $+2$
0, 2, 4, 6, 8, 10, 12

COUNT
BY 5s

$+5$ $+5$ $+5$ $+5$ $+5$ $+5$
0, 5, 10, 15, 20, 25, 30

COUNT
BY 10s

$+10$ $+10$ $+10$ $+10$ $+10$ $+10$
0, 10, 20, 30, 40, 50, 60

COUNT
BY 3s -
CHALLENGE

$+3$ $+3$ $+3$ $+3$ $+3$ $+3$
0, 3, 6, 9, 12, 15, 18



The jump stays the same.

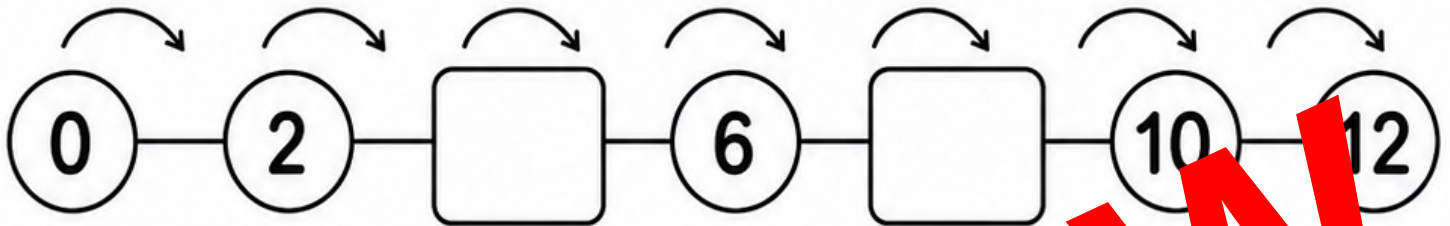


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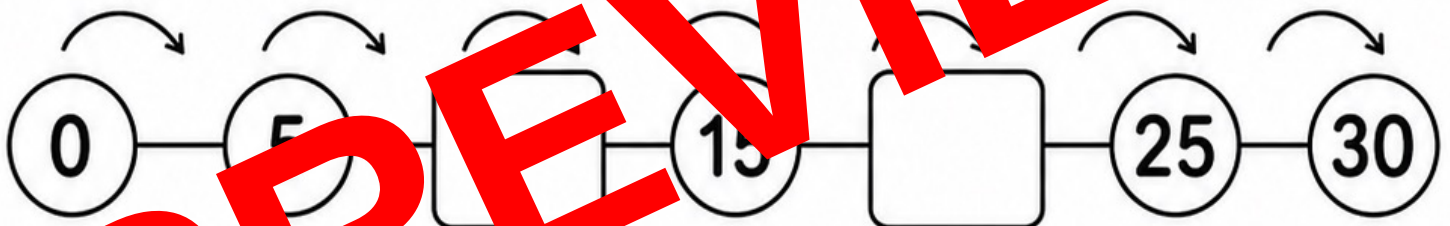
NUMBER LINE JUMPS

Fill in the missing numbers.

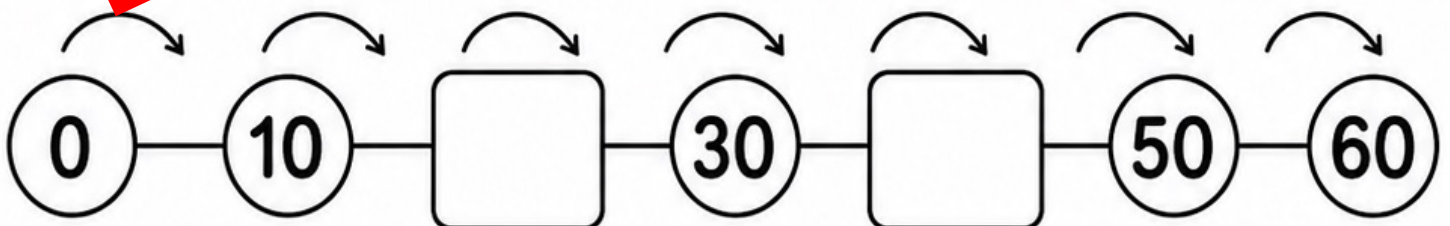
COUNT BY 2s



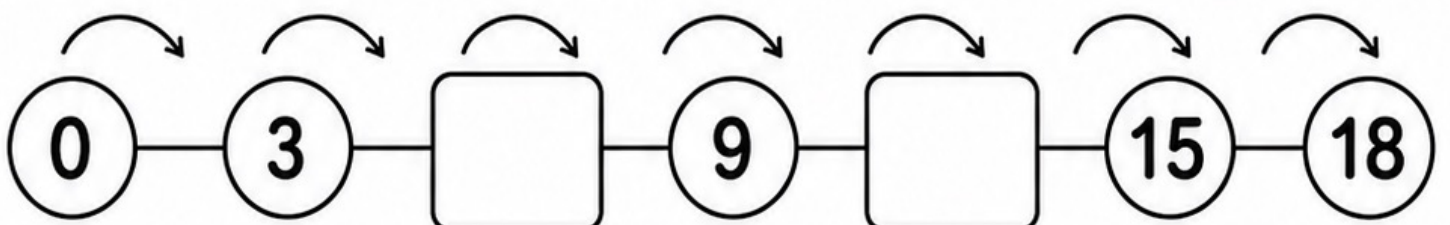
COUNT BY 5s



COUNT BY 10s



COUNT BY 3s - CHALLENGE

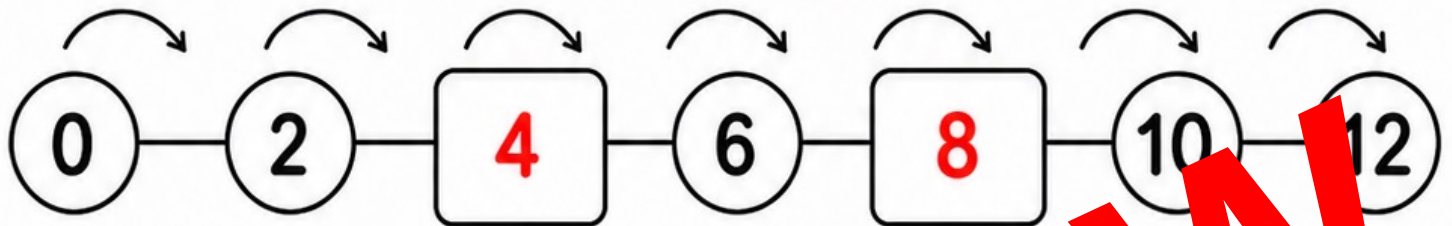


Name: ANSWERS

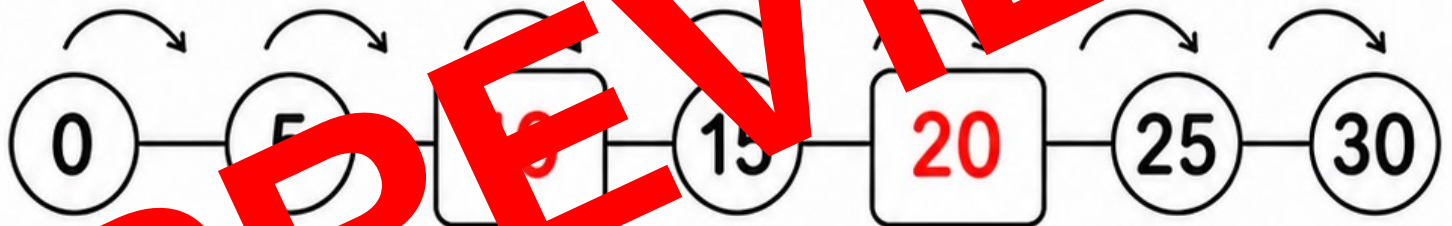
NUMBER LINE JUMPS

Fill in the missing numbers.

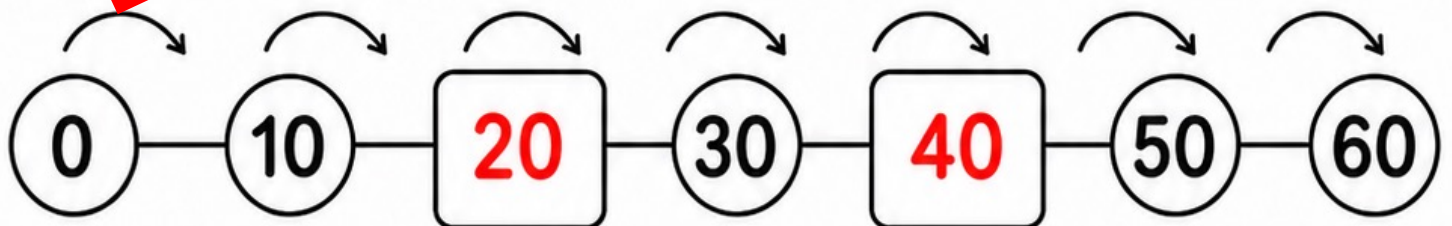
COUNT BY 2s



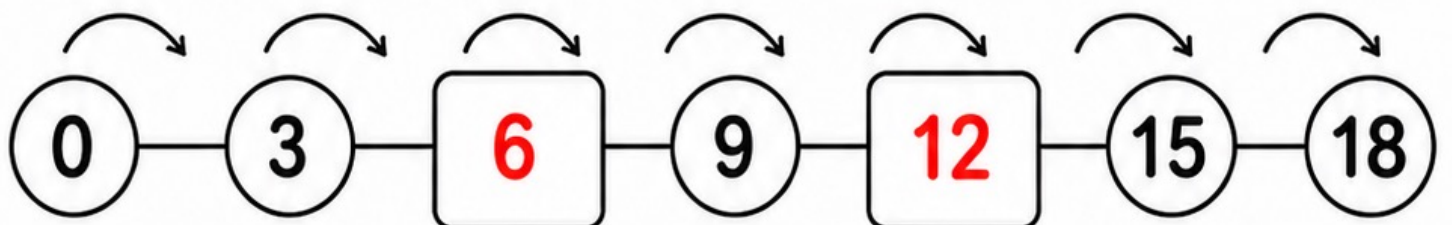
COUNT BY 5s



COUNT BY 10s



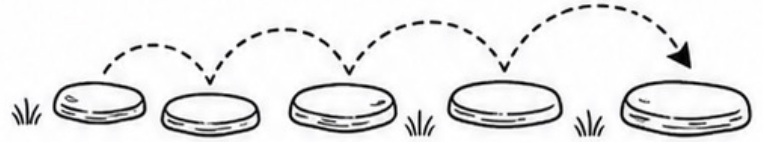
COUNT BY 3s - CHALLENGE



GROW BY 2s

Name: _____

Write the missing numbers.



1.

0	2		6		10
---	---	--	---	--	----

2.

4	6		10		14
---	---	--	----	--	----

3.

10	12		16		20
----	----	--	----	--	----

4.

20	22		26		30
----	----	--	----	--	----

5.

6		10		14	16
---	--	----	--	----	----

6.

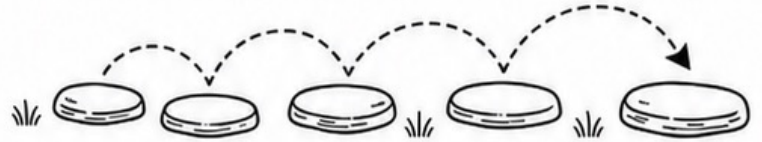
12	14		18		22
----	----	--	----	--	----



GROW BY 2s

Name: **ANSWERS**

Write the missing numbers.



1.

0	2	4	6	8	10
---	---	---	---	---	----

2.

4	6	8	10	12	14
---	---	---	----	----	----

3.

10	12	14	16	18	20
----	----	----	----	----	----

4.

20	22	24	26	28	30
----	----	----	----	----	----

5.

6	8	10	12	14	16
---	---	----	----	----	----

6.

12	14	16	18	20	22
----	----	----	----	----	----



GROW BY 5s AND 10s

Name: _____

Write the missing numbers.



COUNT BY 5s

1. 0 5 15 25

2. 10 15 25 35

3. 25 30 40 50



COUNT BY 10s

4. 0 10 30 50

5. 20 30 50 70

6. 50 60 80 100

GROW BY 5s AND 10s

Name: ANSWERS

Write the missing numbers.



COUNT BY 5s

1. 0 5 10 15 20 25

2. 10 15 20 25 30 35

3. 25 30 35 40 45 50



COUNT BY 10s

4. 0 10 20 30 40 50

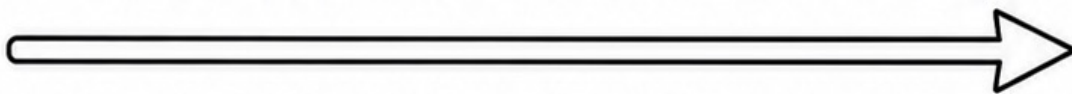
5. 20 30 40 50 60 70

6. 50 60 70 80 90 100



Name: _____

FIND THE RULE



Circle the rule for each pattern.

1. 0, 2, 4, 6

+2

+3

+5

+10

2. 0, 5, 10, 15

+2

+3

+5

+10

3. 10, 20, 30, 40

+2

+3

+5

+10

4. 3, 6, 9, 12

+2

+3

+5

+10

5. 8, 10, 12, 14

+2

+3

+5

+10

6. 15, 20, 25, 30

+2

+3

+5

+10

7. 40, 50, 60, 70

+2

+3

+5

+10

8. 6, 9, 12, 15

+2

+3

+5

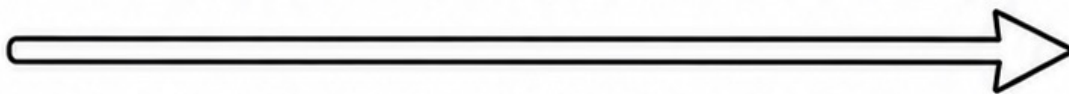
+10

PREVIEW



Name: **ANSWERS**

FIND THE RULE



Circle the rule for each pattern.

1. 0, 2, 4, 6

+2

+3

+5

+10

2. 0, 5, 10, 15

+2

+3

+5

+10

3. 10, 20, 30, 40

+2

+3

+5

+10

4. 3, 6, 9, 12

+2

+3

+5

+10

5. 8, 10, 12, 14

+2

+3

+5

+10

6. 15, 20, 25, 30

+2

+3

+5

+10

7. 40, 50, 60, 70

+2

+3

+5

+10

8. 6, 9, 12, 15

+2

+3

+5

+10

PREVIEW



Name: _____

MISSING NUMBER DETECTIVES



Write the missing number.

1. 2, 6, 8

2. 5, 10, 20

3. 10, 30, 40

4. 3, 6, 12

5. 12, 14, 18

6. 20, 25, 35

7. 40, 60, 70

8. 9, 12, 18

9. 0, 2, 4, 8, 10

10. 0, 10, 20, 40, 50



Name: ANSWERS

MISSING NUMBER DETECTIVES



Write the missing number.

1. 2, 4 6, 8

2. 5, 10, 15 20

3. 10, 20 30, 40

4. 3, 6, 9 12

5. 12, 14, 16 18

6. 20, 25, 30 35

7. 40, 50 60, 70

8. 9, 12, 15 18

9. 0, 2, 4, 6 8, 10

10. 0, 10, 20, 30 40, 50

Name: _____



MIXED PATTERN CHALLENGE



A. Write the next two numbers.

1. 2, 4, 6, ,

2. 5, 10, 15, ,

3. 10, 20, 30, ,

4. 3, 6, 9, ,

B. Circle the rule.

5. 14, 16, 18, 20

+2

+3

+5

+10

6. 2, 5, 8, 11, 14, 17, 20, 23, 26, 29, 32, 35, 38, 41, 44, 47, 50

+2

+3

+5

+10

7. 30, 40, 50, 60

+2

+3

+5

+10

8. 12, 15, 18, 21

+2

+3

+5

+10

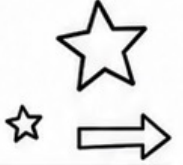
C. Write the missing number.

9. 0, 2, , 6, 8

10. 10, 20, , 40, 50



MIXED PATTERN CHALLENGE



A. Write the next two numbers.

1. 2, 4, 6, **8**, **10**

2. 5, 10, 15, **20**, **25**

3. 10, 20, 30, **40**, **50**

4. 3, 6, 9, **12**, **15**

B. Circle the rule.

5. 14, 16, 18, 20 **+2** +3 +5 +10

6. 2, 7, 12, 17, 22, 27, 32, 37, 40 **+5** +2 +3 +10

7. 30, 40, 50, 60 **+10** +2 +3 +5

8. 12, 15, 18, 21 **+3** +2 +5 +10

C. Write the missing number.

9. 0, 2, **4**, 6, 8

10. 10, 20, **30**, 40, 50

PATTERN PATH RACE

1 Pick a path. 2 Roll and move the counter the number of spaces. 3 Say the number for the space you land on.

4 Correct? Stay. Not yet? Go back. First to FINISH wins!



COUNT BY 2s

0

Path of 10 empty circles for counting by 2s.

FINISH

COUNT BY 5s

0

Path of 10 empty circles for counting by 5s.

FINISH

COUNT BY 10s

0

Path of 10 empty circles for counting by 10s.

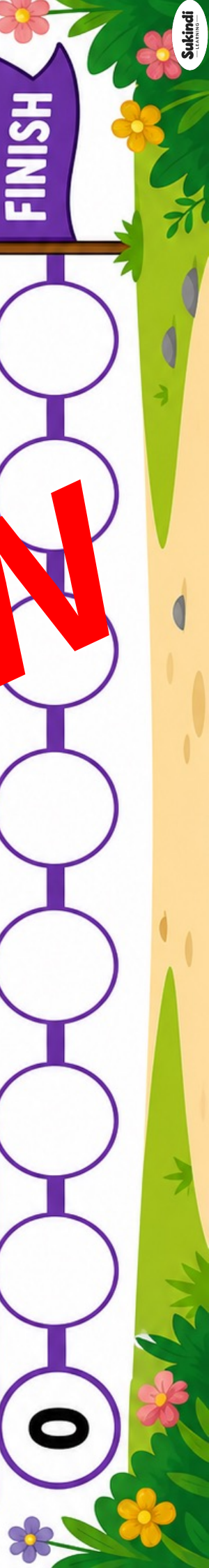
FINISH

COUNT BY 3s - CHALLENGE

0

Path of 10 empty circles for counting by 3s - CHALLENGE.

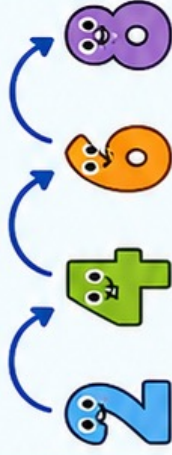
FINISH



MATCH THE PATTERN

Cut out the cards. Match each number pattern to its rule.

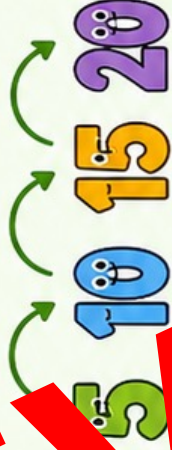
2, 4, 6, 8



COUNT BY 2s



5, 10, 15, 20



COUNT BY 5s



10, 20, 30, 40



COUNT BY 10s

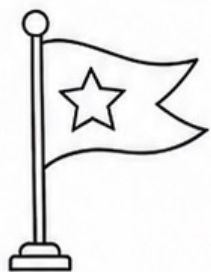


3, 6, 9, 12



COUNT BY 3s -
CHALLENGE





Name: _____



PATTERN PARADE CHALLENGE

Show what you know about number patterns.

1. Complete: 0, 2, , 6, 8

2. Write the next two numbers: 10, 15, 20, ,

3. True or false? 0, 10, 20, 30 counts by 10s. TRUE FALSE

4. Circle the rule: 6, 8, 10, 12 +2 +5 +10

5. Complete: 5, , 15, 20

6. Write the next two numbers: 20, 30, 40, ,

7. Circle the pattern that counts by 5s. A. 0, 5, 10, 15 B. 0, 2, 4, 6

8. Challenge: 3, 6, , 12

9. Write the next two numbers: 12, 14, 16, ,

10. Circle the rule: 25, 30, 35, 40 +2 +5 +10

11. Count by 10s. Write three numbers after 0: , ,

12. Create a number pattern that counts by 5s. Write four numbers and explain the rule.

Rule: _____



Name: **ANSWERS**



PATTERN PARADE CHALLENGE

Show what you know about number patterns.

- Complete: 0, 2, **4**, 6, 8
- Write the next two numbers: 10, 15, 20, **25**, **30**
- True or false? 0, 10, 20, 30 counts by 10s. **TRUE** FALSE
- Circle the rule: 6, 8, 10, 12 **+2** +5 +10
- Complete: 5, **10**, 15, 20
- Write the next two numbers: 20, 30, 40, **50**, **60**
- Circle the pattern that counts by 5s. **A.** 0, 5, 10, 15 B. 0, 2, 4, 6
- Challenge: 3, 6, **9**, 12
- Write the next two numbers: 12, 14, 16, **18**, **20**
- Circle the rule: 25, 30, 35, 40 +2 **+5** +10
- Count by 10s. Write three numbers after 0: **10**, **20**, **30**
- Create a number pattern that counts by 5s. Write four numbers and explain the rule.

5

10

15

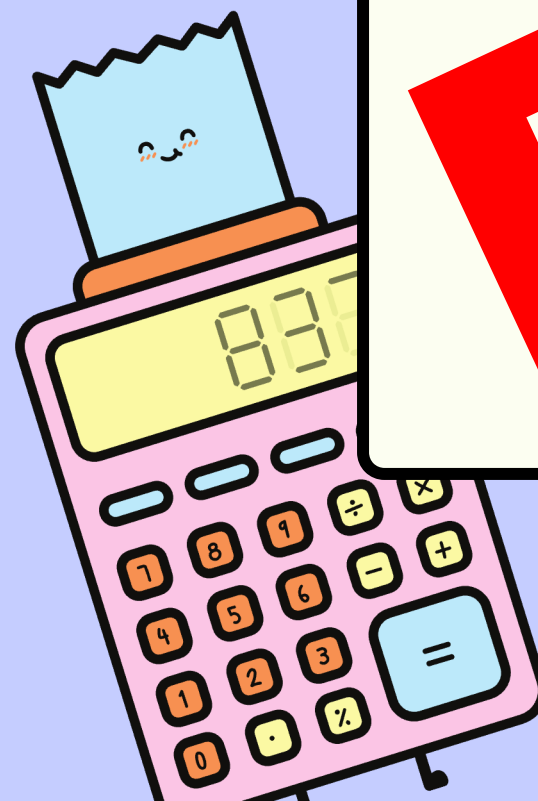
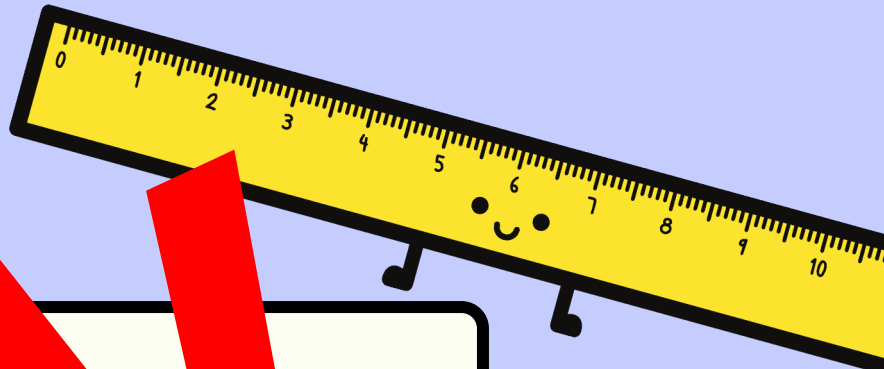
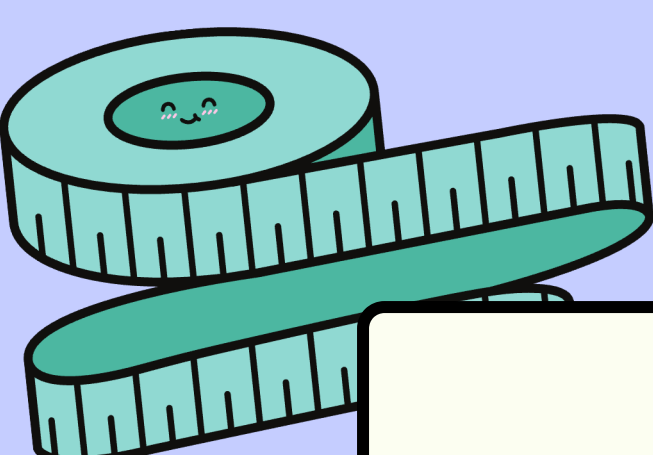
20

Rule: **I add 5 each time.**

NUMBER PATTERNS - YEAR 1 RUBRIC

Student: _____ Date: _____

CRITERIA	BEGINNING	DEVELOPING	ACHIEVING	CONFIDENT	EXCEEDING
Recognises the rule	Needs help to notice a rule.	Notifies the rule with prompts.	Identifies +2, +5 and +10.	Identifies and explains each rule.	Applies rules from unfamiliar starts.
Continues patterns	Needs help to add the next term.	Continues a pattern with prompts.	Continues +2, and +10 patterns.	Completes patterns accurately.	Completes core and challenge patterns.
Creates and explains	Needs help to make a pattern.	Makes a pattern with a model.	Creates a correct core pattern.	Creates and explains the fixed jump.	Creates, explains and checks a new pattern.



Number Patterns



A Pattern Follows a Rule

A number pattern changes the same way each time.

Look at two neighbours. Ask: What jump was made?



Count by 2s

0, 2, 4, 6, 8, 10, 12

Each number is 2 more. The rule is +2.



Notice the 2s Pattern

Starting at 0, counting by 2s on even numbers.

2, 4, 6, 8, 10 ...



Count by 5s

0, 5, 10, 15, 20, 25, 30

Each number is 5 more. The rule is +5.



Spot the 5s Pattern

Starting at 0, the last digit alternates 5 and 0.

5, 10, 15, 20, 25, 30



Count by 10s

0, 10, 20, 30, 40, 50, 60

Each number is 10 more. The rule is +10.



Spot the 10s Pattern

Starting at 0, every number ends in 0.

The tens digit grows by one.



Find a Missing Number

0, 2, , 8

The rule is $+2$, so the missing number is 4.



Try Another One

5, 10, , 20

The rule is $\times 2$, so the missing number is 15.



Create Your Own Pattern

Choose $+2$, $+5$ or -10 . Start at 0.

Write the numbers. Check that every jump stays the same.

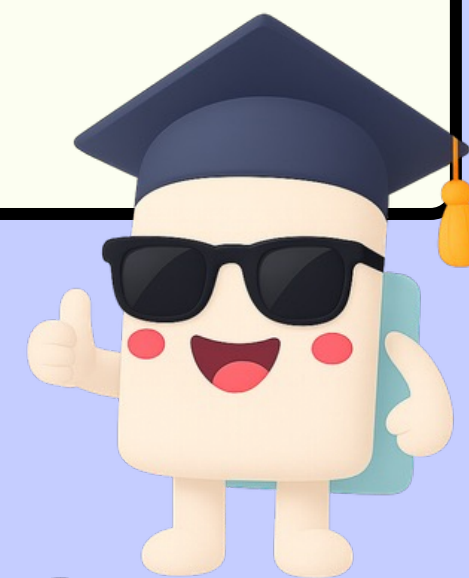
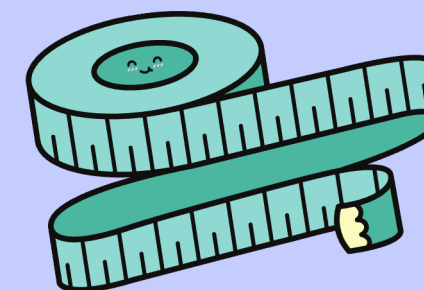
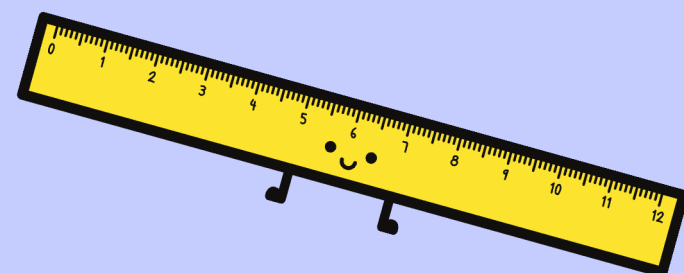
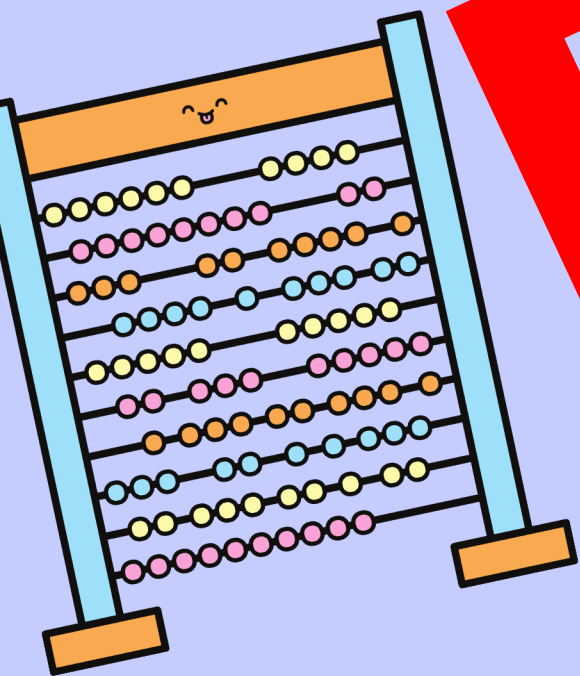
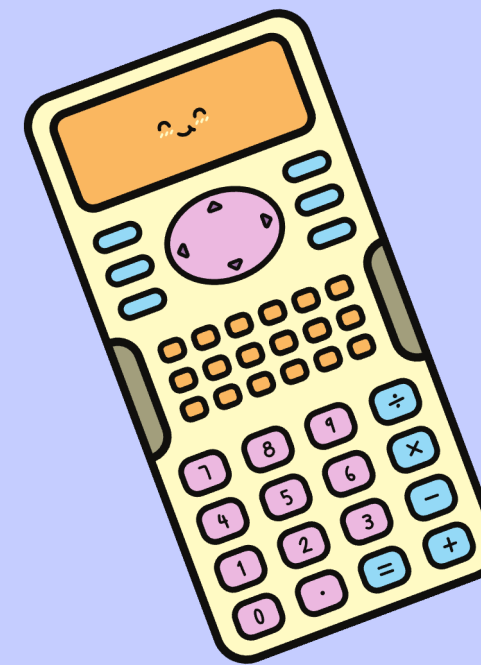
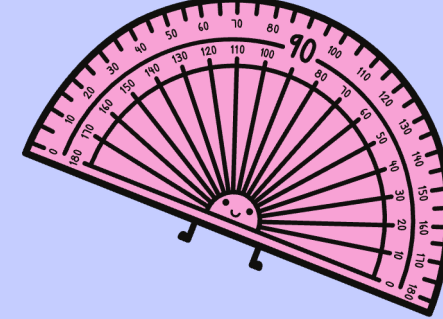
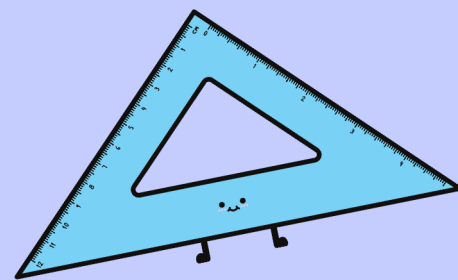
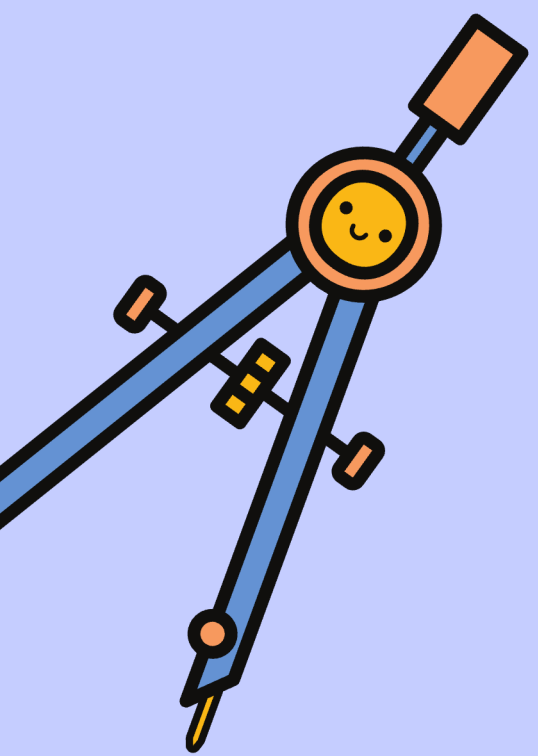


Challenge: Count by 3s

0, 3, 6, 9, 12, 15, 18

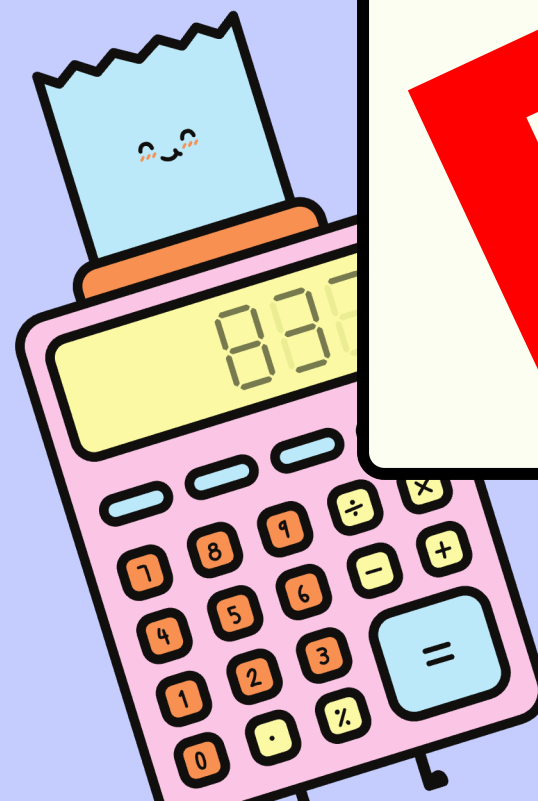
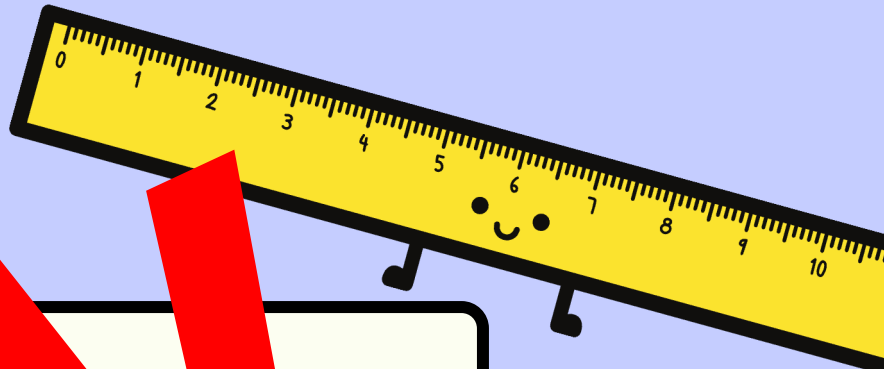
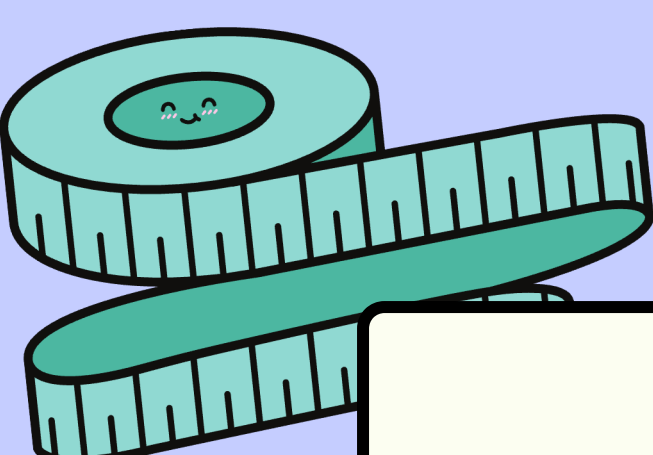
The extension uses the fixed rule +3.





PREVIEW

Well Done!



PREVIEW

Number Patterns Quiz



Question 1

Which number is missing?

0, 2, __, 6, 8

A. 3 B. 4 C. 5 D. 6



Answer 1

PREVIEW

B. 1

2, 4, 6, 8



Question 2

True or false?

5, 10, 15 counts by 5s.

TRUE or FALSE



Answer 2

PREVIEW

The jump is +5 each time.



Question 3

Write the next two numbers.

10, 20, 30, __, __



Answer 3

PREVIEW

40, 50



Question 4

What is the rule

12, 14, 16, 18

A. +2 B. +3 C. +5 D. +10



Answer 4

PREVIEW

A. 2

Each number is 2 more.



Question 5

PREVIEW

Which number is missing?

5, __, 15, 20



Answer 5

PREVIEW

The jump is +5 each time.



Question 6

Which pattern counts in 10s?

A. 0, 2, 4, 6

B. 0, 5, 10, 15

C. 0, 10, 20, 30

D. 3, 6, 9, 12



Answer 6

PREVIEW

C. 0, 10, 20, 30



Question 7

True or false?

Any number in 0, 10, 20, 30 ends in 0.

TRUE or FALSE



Answer 7

PREVIEW

TRUE



Question 8

Write the next two numbers.

25, 30, 35, __, __



Answer 8

PREVIEW

40, 45



Question 9

Challenge. Which number is missing?

3, 6, __, 12

A. 7 B. 8 C. 9 D. 10



Answer q

PREVIEW

the change rule is +3.



Question 10

Write numbers that count by 5s, starting at 0.

PREVIEW

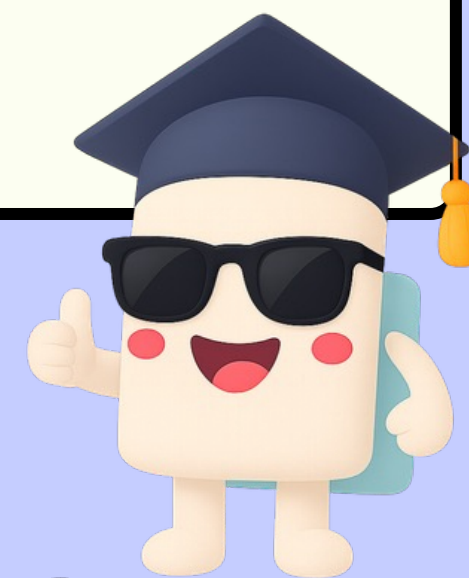
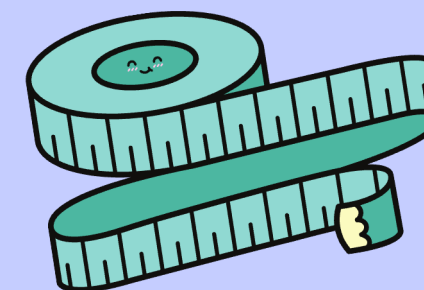
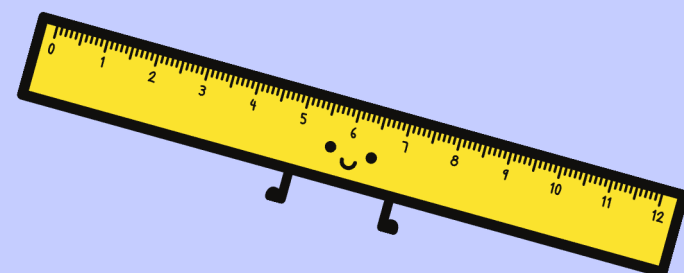
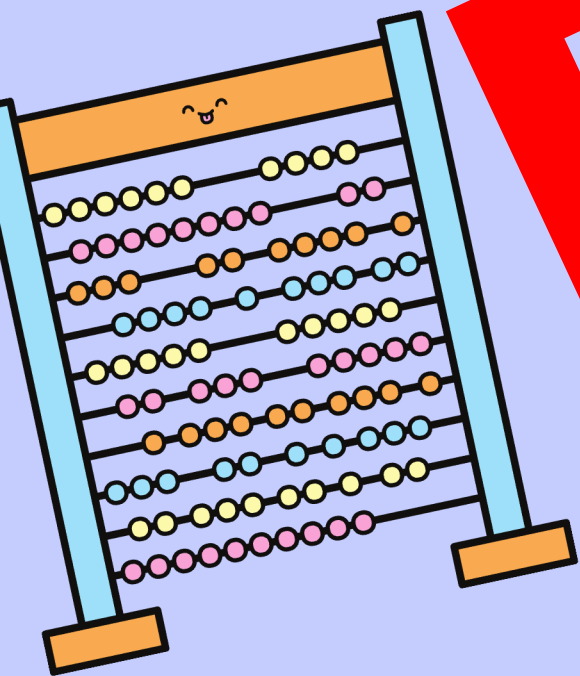
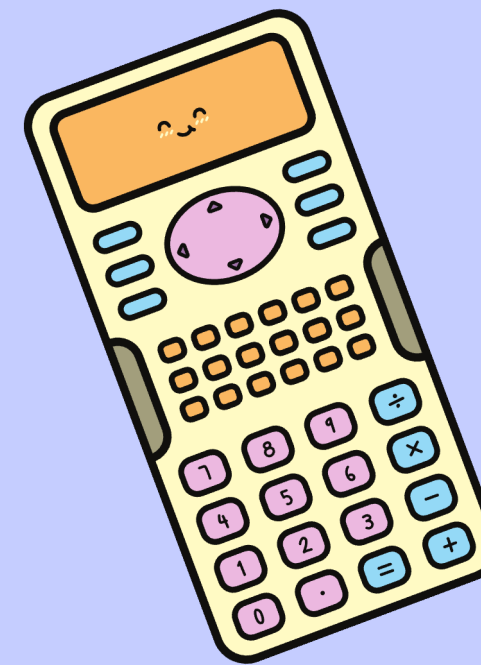
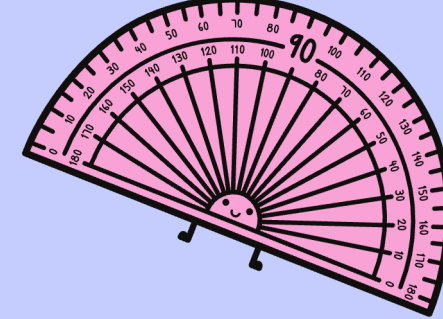
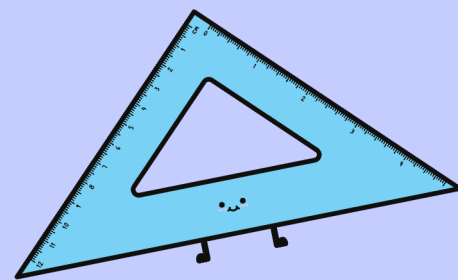
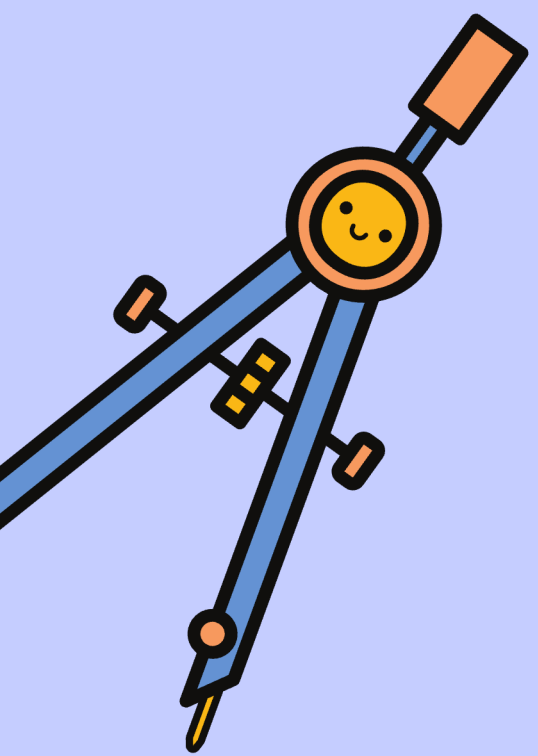


Answer 10

PREVIEW

0, 5, 10, 15





PREVIEW

Well Done!