






REGENT STUDIES
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## 100 Square

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 |
| 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 |
| 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 |
| 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |
| 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 |
| 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |

## Lily Pad Hopping

To count forwards and backwards in steps of ten from any number.

Frankie is counting in steps of 10.
What are the next 3 numbers in these sequences?



## Lily Pad Hopping

Help Frankie reach the flower by counting in steps of 10.


## Answers

Frankie is counting in steps of 10.
What are the next 3 numbers in these sequences?
40, 50, 60, 70, 80, 90
$45,55,65,75,85,95$
100, 90, 80, 70, 60, 50
$93,83,73,63,53,43$
Help Frankie reach the flower by counting in steps of 10.


## Lily Pad Hopping

To count forwards and backwards in steps of ten from any number.

Frankie is counting in steps of 10.
Can you fill in the missing numbers in each sequence?



## Lily Pad Hopping

To count forwards and backwards in steps of ten from any number.

How many different ways can you help Frankie cross the pond when counting in steps of ten?

## Start



## Finish

## Answers

Frankie is counting in steps of 10.
Can you fill in the missing numbers in each sequence?


## Answers

How many different ways can you help Frankie cross the pond when counting in steps of ten?


## Lily Pad Hopping

To count forwards and backwards in steps of ten from any number.

Frankie is counting in steps of 10.
Can you fill in the missing numbers in each sequence?


## Lily Pad Hopping

To count forwards and backwards in steps of ten from any number.

How many different ways can you help Frankie 000 cross the pond when counting in steps of ten?
Fill in the missing numbers to complete your routes.

## Start



Finish

## Answers

Frankie is counting in steps of 10. Can you fill in the missing numbers in each sequence?
49, 59, 69, 79, 89, 99
76, 86, 96, 106, 116, 126
134, 124, 114, 104, 94, 84

## 37, 47, 57, 67, 77, 87

How many different ways can you help Frankie cross the pond when counting in steps of ten? Fill in the missing numbers to complete your routes.

$\qquad$


DDDDDDDDDDDD DJDDDDDDDDDD
 DDDDDDDDDDDD DDDDDDDDJDDD


DDDDDDDDDDDD DJDDDDDDDDDD
 DDDDDDDDDDDD DDDDDDDDJDDD


## Counting in Fives

To count in steps of five.

Can you continue the sequences counting in 5s?
5, 10, 15, $\qquad$ , $\qquad$ , $\qquad$ , $\qquad$
15, 20, 25, 30, $\qquad$ , $\qquad$ ,

35, 30, 25, 20, $\qquad$ , $\qquad$ ,

25, 30, 35, 40, $\qquad$ , $\qquad$
55, 50, 45, $\qquad$
$\qquad$
$\qquad$
$\qquad$
30, 35, 40, 45, 50, $\qquad$ , $\qquad$ ,

Can you fill in the missing numbers?

| 0 |  | 10 |  | 20 |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 40 |  | 50 |  | 60 |
|  |      <br> 20  30  40    <br> 35  45  |  |  |  |  |

Some of these numbers are not multiples of 5. Can you circle them?
5, 12, 15, 20, 22, 32
50, 45, 40, 35, 31, 26
24, 60, 35, 38, 46, 57

## Answers

Can you continue the sequences counting in 5 s?
$5,10,15,20,25,30,35$
$15,20,25,30,35,40,45$
35, 30, 25, 20, 15, 10, 5
$25,30,35,40,45,50,55$
55, 50, 45, 40, 35, 30, 25
$30,35,40,45,50,55,60$

Can you fill in the missing numbers?

| 0 | 5 | 10 | $\mathbf{1 5}$ | 20 | $\mathbf{2 5}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{3 5}$ | $\mathbf{4 0}$ | $\mathbf{4 5}$ | 50 | $\mathbf{5 5}$ | 60 |
| 20 | $\mathbf{2 5}$ | 30 | $\mathbf{3 5}$ | 40 | $\mathbf{4 5}$ |
| 35 | $\mathbf{4 0}$ | 45 | $\mathbf{5 0}$ | 55 | $\mathbf{6 0}$ |

Some of these numbers are not multiples of 5. Can you circle them?


# Counting in Fives 

To count in steps of five.

Can you continue the sequences counting in 5s?
$55,50,45,40$, $\qquad$ , $\qquad$ , $\qquad$ ,

45, 40, 35, 30, $\qquad$ , $\qquad$ , $\qquad$
25, 30, $\qquad$ 40, $\qquad$
$\qquad$
$\qquad$

0 , $\qquad$ 10, 15, $\qquad$ , $\qquad$ —,

35, $\qquad$ , $\qquad$ , $\qquad$ 10

25, $\qquad$ , $\qquad$ , $\qquad$ , $\qquad$ 0

Can you fill in the missing numbers?

| 25 |  | 15 |  | 5 |  |
| :--- | :--- | :--- | :--- | :--- | :--- |


| 65 |  |  | 50 |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |


| 30 |  | 40 |  | 50 |  |
| :--- | :---: | :---: | :---: | :---: | :---: |
|  | 5 |  |  | 20 |  |

Some of these numbers are not multiples of 5 . Can you circle them?
55, 42, 61, 60, 50, 5
17, 36, 15, 45, 51, 56
5, 26, 41, 55, 65, 60, 25
$1,5,10,16,22,29$

Complete the sentence:
Multiples of 5 always have a 5 or a $\qquad$ in the ones column.

## Answers

Can you continue the sequences counting in 5 s?
$55,50,45,40,35,30,25$
45, 40, 35, 30, 25, 20, 15
$25,30,35,40,45,50,55$
$0,5,10,15,20,25,30$,
35, 30, 25, 20, 15, 10
25, 20, 15, 10, 5, 0
Can you fill in the missing numbers?

| 25 | $\mathbf{2 0}$ | 15 | $\mathbf{1 0}$ | 5 | $\mathbf{0}$ |
| :--- | :--- | :--- | :--- | :--- | :--- |


| 65 | $\mathbf{6 0}$ | $\mathbf{5 5}$ | 50 | $\mathbf{4 5}$ | $\mathbf{4 0}$ |
| :--- | :--- | :--- | :--- | :--- | :--- |


| 30 | 35 | 40 | 45 | 50 | 55 |
| :--- | :--- | :--- | :--- | :--- | :--- |


| $\mathbf{0}$ | 5 | $\mathbf{1 0}$ | $\mathbf{1 5}$ | 20 | $\mathbf{2 5}$ |
| :--- | :--- | :--- | :--- | :--- | :--- |

Some of these numbers are not multiples of 5. Can you circle them?


Complete the sentence:
Multiples of 5 always have a $\mathbf{5}$ or a $\mathbf{0}$ in the ones column.

## Counting in Fives

To count in steps of five.

Can you continue the sequences counting in 5 s?


Can you fill in the missing numbers?

| 60 |  |  |  | 40 |  |
| :--- | :--- | :--- | :--- | :--- | :--- |


| 0 |  |  | 15 |  | 25 |
| :--- | :--- | :--- | :--- | :--- | :--- |


|  |  | 30 | 35 |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |


| 40 |  |  |  |  | 65 |
| :--- | :--- | :--- | :--- | :--- | :--- |

Circle the multiples of 5 and write them in the table. The first one is done for you. 54,55. 61, 65, 30, 47, 5, 12, 15, 39, 56, 43

| Multiples of 5 |  |
| :---: | :---: |
| Tens Digit | Ones Digit |
| 5 | 5 |
|  |  |
|  |  |
|  |  |

What do you notice about the ones digit in multiples of 5 ?

## Answers

Can you continue the sequences counting in 5 s?
$35,40,45,50,55,60,65$
50, 45, 40, 35, 30, 25
20, 25, 30 35, 40, 45, 50
5, 10, 15, 20, 25, 30
$65,60,55,50,45,40$
$30,35,40,45,50,55,60$
Can you fill in the missing numbers?

| 60 | 55 | 50 | $\mathbf{4 5}$ | 40 | 35 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | 5 | $\mathbf{1 0}$ | 15 | $\mathbf{2 0}$ | 25 |
| $\mathbf{2 0}$ | $\mathbf{2 5}$ | 30 | 35 | $\mathbf{4 0}$ | $\mathbf{4 5}$ |
| 40 | $\mathbf{4 5}$ | $\mathbf{5 0}$ | $\mathbf{5 5}$ | $\mathbf{6 0}$ | 65 |

Circle the multiples of 5 and write them in the table. The first one is done for you. 54, 55, 61, 65, 30, $47,5,12,15,39,56,43$

| Multiples of 5 |  |
| :---: | :---: |
| Tens Digit | Ones Digit |
| 5 | 5 |
| 6 | 5 |
| 3 | 0 |
| - | 5 |
| 1 | 5 |

What do you notice about the ones digit in multiples of 5 ?

## It is always a 5 or a 0.

## Counting in Twos Puzzle

To count in steps of two.

Can you help Zac the zookeeper to put his zoo picture back together? Cut out the puzzle pieces. On the next page, stick them in the correct order to complete the picture, counting in steps of 2 from 0 . Be careful - some pieces are from the wrong puzzle so won't be needed!

(

Which pieces did you not use? $\qquad$
What do you notice about the pattern? $\qquad$

Write 3 numbers that would never fit the pattern. Explain your reasoning.


Feed the Monkeys


Feed the Monkeys



## Missing Numbers

To count in steps of two.
$0-0$
Write the missing numbers in the sequence by counting forwards and backwards in steps of 2 .


Explain to a partner how you found the missing numbers.
Zoe the zookeeper says, " $34,36,38 \ldots$ If I keep on counting forwards in steps of 2 , what numbers will I never use?"

Write 5 numbers Zoe the zookeeper will never say. Explain your reasoning.

## Answers

Write the missing numbers in the sequence by counting forwards and backwards in steps of 2.


Zoe the zookeeper says, " $34,36,38$... If I keep on counting forwards in steps of 2 , what numbers will I never use?"
Write 5 numbers Zoe the zookeeper will never say. Explain your reasoning.
Child's own answer. Their answer may include reference to odd numbers.






## Tricycle

Put counters in the grids under the tricycles to count how many wh

|  |  |  |
| :---: | :---: | :---: |
| 1 tricycle | 2 tricycles | 3 tricycles |
|  |  |  |
| 3 wheels |  |  |
|  | 6 wheels |  |
|  |  | _ wheels |

## le Grids

$f$ wheels they have altogether. The first two have been done for you.

|  |  |  |  |
| :---: | :---: | :---: | :---: |
|  | 4 tricycles | 5 tricycles | 6 tricycles |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  | _ wheels |  |  |
|  |  | __ wheels |  |
|  |  |  | __ wheels |


| 7 tricycles |  | 8 tricycles |  |  | 9 tricycles |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |  |  |  |  |


| 10 tricycles |  | 11 tricycles |  | 12 tricycles |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |  |  |  |  |

## Tricycle Grids

Put counters in the grids under the tricycles to count how many wheels they have altogether. The first two have been done for you.

|  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 tricycle | 2 tricycles | 3 tricycles | 4 tricycles | 5 tricycles | 6 tricycles |
|  |  |  |  |  |  |
| 3 wheels |  |  |  |  |  |
| 6 wheels |  |  |  |  |  |
| wheels   <br>  wheels  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  | ___ wheels |  |
|  |  |  |  |  | ___ wheels |



Tricycle Grids
Put counters in the grids under the tricycles to count how many wheels they have altogether. The first two have been done for you.

|  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 tricycle | 2 tricycles | 3 tricycles | 4 tricycles | 5 tricycles | 6 tricycles |
|  |  |  |  |  |  |
| 3 wheels |  |  |  |  |  |
| 6 wheels |  |  |  |  |  |
|  |  | __ wheels |  |  |  |
|  |  |  | _ wheels |  |  |
|  |  |  |  | wheels |  |
|  |  |  |  |  | wheels |



## Tricycles

To count forwards and backwards in steps of three.

## A. How many wheels?

1. Put counters on your Tricycle Grids to find out how many wheels there are on the tricycles altogether.
2. Count in threes using your Tricycle Grids to fill in this counting stick:

| 3 | 6 |  |  |  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

3. How many wheels are there on 6 tricycles altogether? $\qquad$
4. How many wheels are there on 9 tricycles altogether? $\qquad$
5. How many wheels are there on 12 tricycles altogether? $\qquad$

## B. Counting in threes

1. Which step of 3 comes before 15 ? $\qquad$
2. Which step of 3 comes after 30 ? $\qquad$
3. Which step of 3 comes before 27 ? $\qquad$
4. Which step of 3 comes after 9 ? $\qquad$
5. Which step of 3 comes before 33 ? $\qquad$


## Answers

## A. How many wheels?

1. Put counters on your Tricycle Grids to find out how many wheels there are on the tricycles altogether.
2. Count in threes using your Tricycle Grids to fill in this counting stick:

| 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 | 33 | 36 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

3. How many wheels are there on 6 tricycles altogether? 18
4. How many wheels are there on 9 tricycles altogether? $\underline{\mathbf{2 7}}$
5. How many wheels are there on 12 tricycles altogether? $\mathbf{3 6}$

## B. Counting in threes

1. Which step of 3 comes before 15? 12
2. Which step of 3 comes after 30 ? $\mathbf{3 3}$
3. Which step of 3 comes before $27 \boldsymbol{2} \mathbf{2 4}$
4. Which step of 3 comes after 9 ? 12
5. Which step of 3 comes before 33 ? $\mathbf{3 0}$

## Tricycles

To count forwards and backwards in steps of three.
000

## A. How many wheels?

1. Count in threes to fill in this counting stick:

| 3 | 6 |  |  |  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

2. How many wheels are there on 7 tricycles altogether? $\qquad$
3. How many wheels are there on 4 tricycles altogether? $\qquad$
4. How many wheels are there on 11 tricycles altogether? $\qquad$
5. How many wheels are there on 13 tricycles altogether? $\qquad$

## B. Counting in threes

1. Which step of 3 comes before 12 ? $\qquad$
2. Which step of 3 comes after 30 ? $\qquad$
3. Which step of 3 comes before 27 ? $\qquad$
4. Which step of 3 comes after 18 ? $\qquad$

5. Which step of 3 comes before 33 ? $\qquad$

## C. Missing numbers

Some of the numbers on these counting sticks got covered in mud when the tricycles rode over them - oh dear! Can you write in the missing numbers? Be careful - is the counting stick counting forwards or backwards?


1. The missing numbers are $\qquad$ .

2. The missing numbers are $\qquad$ .

## Answers

## A. How many wheels?

1. Count in threes to fill in this counting stick:

| 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 | 33 | 36 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

2. How many wheels are there on 7 tricycles altogether? $\underline{\mathbf{1}}$
3. How many wheels are there on 4 tricycles altogether? 12
4. How many wheels are there on 11 tricycles altogether? 33
5. How many wheels are there on 13 tricycles altogether? $\mathbf{3 9}$

## B. Counting in threes

1. Which step of 3 comes before 12 ? 9
2. Which step of 3 comes after 30 ? 33
3. Which step of 3 comes before 27 ? $\mathbf{2 4}$
4. Which step of 3 comes after 18 ? $\underline{21}$
5. Which step of 3 comes before 33 ? $\mathbf{3 0}$

## C. Missing numbers

Some of the numbers on these counting sticks got covered in mud when the tricycles rode over them - oh dear! Can you write in the missing numbers? Be careful - is the counting stick counting forwards or backwards?

| 3 | $\mathbf{6}$ | 9 | 12 | 15 | $\mathbf{1 8}$ | 21 | 24 | $\mathbf{2 7}$ | 30 | 33 | $\mathbf{3 6}$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $\mathbf{3 6}$ | 33 | 30 | 27 | $\mathbf{2 4}$ | $\mathbf{2 1}$ | 18 | $\mathbf{1 5}$ | 12 | $\mathbf{9}$ | 6 | 3 |

## Tricycles

> To count forwards and backwards in steps of three.


## A. How many wheels?

1. Count in threes to fill in this counting stick:

| 3 | 6 |  |  |  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

2. How many wheels are there on 7 tricycles altogether? $\qquad$
3. How many wheels are there on 12 tricycles altogether? $\qquad$
4. How many wheels are there on 13 tricycles altogether? $\qquad$
5. How many wheels are there on 14 tricycles altogether? $\qquad$
6. How many wheels are there on 15 tricycles altogether? $\qquad$
7. How many wheels are there on 16 tricycles altogether? $\qquad$

## B. Counting in threes

1. Which step of 3 comes before 36 ? $\qquad$
2. Which step of 3 comes after 36 ? $\qquad$
3. Which step of 3 comes before 27 ? $\qquad$
4. Which step of 3 comes after 42? $\qquad$
5. Which step of 3 comes before 48 ? $\qquad$


## Tricycles

## C. Missing numbers

Some of the numbers on these counting sticks got covered in mud when the tricycles rode over them - oh dear! Can you write in the missing numbers? Be careful - is the counting stick counting forwards or backwards?


1. The missing numbers are $\qquad$ .

2. The missing numbers are $\qquad$ .

## D. Patterns

Look back at the counting stick you completed in section A. What do you notice about odd and even numbers?

## Answers

## A. How many wheels?

1. Count in threes to fill in this counting stick:

| 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 | 33 | 36 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

2. How many wheels are there on 7 tricycles altogether? $\mathbf{2 1}$
3. How many wheels are there on 12 tricycles altogether? 36
4. How many wheels are there on 13 tricycles altogether? $\mathbf{3 9}$
5. How many wheels are there on 14 tricycles altogether? 42
6. How many wheels are there on 15 tricycles altogether? 45
7. How many wheels are there on 16 tricycles altogether? 48

## B. Counting in threes

1. Which step of 3 comes before 36 ? $\mathbf{3 3}$
2. Which step of 3 comes after 36 ? $\mathbf{3 9}$
3. Which step of 3 comes before $27 \boldsymbol{\mathbf { 2 4 }}$
4. Which step of 3 comes after 42? 45
5. Which step of 3 comes before 48 ? 45
C. Missing numbers

Some of the numbers on these counting sticks got covered in mud when the tricycles rode over them - oh dear! Can you write in the missing numbers? Be careful - is the counting stick counting forwards or backwards?

| 48 | 45 | 42 | 39 | 36 | 33 | 30 | 27 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 21 | 24 | 27 | 30 | 33 | 36 | 39 | 42 |

## D. Patterns

Look back at the counting stick you completed in section A. What do you notice about odd and even numbers?

When counting in threes from zero, the pattern alternates between one odd number and then one even number.

