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## In this book

> The Mathseeds program teaches children the core maths and problem solving skills needed to be successful at school.

Each online lesson begins by introducing and modelling a mathematical concept. The child then completes a wide range of activities to practise the new skill. These activities present the content in many different ways, so children learn to use and apply each new skill in a variety of situations.

This book is designed to supplement the online program with more exercises in the core mathematical concepts. Each unit focuses on a topic within the main learning strand, presenting a series of pen and paper activities, word problems, puzzles and games to practise their skills and understanding.

## Mathseeds Numbers and Patterns Year K Student Book



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| :--- | :--- |
| 1 | 1 |
| 1 | 1 |
| 1 | 1 |
| 1 | 1 |

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| 1 | 1 |
| :--- | :--- |
| 1 | 1 |
| 1 | 1 |
| 1 | 1 |
| 1 | 1 |
| 1 | 1 |

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| :--- | :--- |
| $1 \quad 1$ |

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$1 \quad 1$

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| $1 \quad 1$ |  |
| :--- | :--- |
| 1 | 1 |

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| 11 | 1 |
| :--- | :--- |
| 1 | 1 |

$89 \cdot$ Making patterns

| 1 | 1 |
| :--- | :--- |
| 1 | 1 |
| 1 | 1 |
| 1 | 1 |

Number $0 \cdot$ zero
I Write the number 0 .


2 Which box has 0 things? (Circle it.


3 Colour the game pieces showing 0 .


## Number I • one

I Write the number I.
$\qquad$
$\qquad$

2 Which box has I thing? Colour it.


## 3 Colour I starfish.



4 Colour the dice with I dot.


5 Circle one star.


6 Circle I in each row.



7 Give each cat I fish.


8 How many?


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## Number 2•two

I Write the number 2.
$\qquad$

2 Which pictures have 2? Match.


3 Which box has 2 things? Colour them.


## 4 Draw two more.



5 Circle two buckets.


6 Match.


7 How many?


## 8 Draw:

## 1 dot.



2 dots.


Number $3 \cdot$ three
I Write the number 3.


2 Which box has 3 things? Colour it.


3 Cross $\times$ out three ducks.


4 Match each picture to a number.


5 Draw.


6 How many?


7 Which picture has 3? Colour them.


Number $4 \cdot$ four
Write the number 4 .
$\qquad$

2 Which box has 4 things? Colour it.




3 Colour four.


4 Draw 4 more hats.


5 How many?


6 Circle four in each row.


## 7 Draw.



Number 5 - five
I Write the number 5 .


2 How many? Join Doc to the pictures that have 5 .


3 Put 5 petals on each flower.


4 Which box has 5 things? Colour it.


5 Colour 5 bees.


6 Count to 5 .


7 Match each picture to a number.


$$
3 \quad 4 \quad 5
$$

## Numbers I to 5

I Trace and match.


2 Draw the matching number of pictures.
$\square$
$\square$


3 Write the missing numbers.


| Numbers, | Oto 5 | 9\%? $3^{\text {ane }}$ |
| :---: | :---: | :---: |
| 0 | zere | \% |
| 1 | One | 440 |
| 2 | two | \% |
| 3 | fhree |  |
| 4 | fourr | A |
| 5 | ffue | 808 |

## Numbers I to $5 \cdot$ My number Investigate

I Choose a number between I and 5. Write it in the circle.
2 Use your number each time.


## Line-up

You will need a die $\digamma_{\cdot}$, counters $O$ and a partner (-).


Number $6 \cdot$ six
Write the number 6.
$\qquad$
2 How many? Colour the pictures that have 6.


3 Match each picture to a number.


4


Colour the most blue. Colour the least yellow.

4 Cross $\times$ out 6 fish.


5 Which boxes have 6 things? Colour them.


6 Draw a dot pattern for each number.

| 1 | 2 | 3 | 4 | 5 | 6 |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

## Number $7 \cdot$ seven

I Write the number 7.


2 Which pictures have 7? Match.


3 Colour the pots that have 7.


4 Which boxes have 7 things? Colour them.


5
Circle 7 in each row.


6 Draw


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## Number 8 - eight

I Write the number 8 .


2 Which box has 8 things? Colour it.


3 Circle eight planets.


4 Write the missing numbers.
$1 \square 304 \square$

5 Colour eight squares.


6 How many? Colour the towers with 8 blocks.


## 7 Draw



8 How many?


## Numbers I to 8

I Trace and match.


## 2 Continue counting.


3


3 How many？Circle the correct number．
W 12345678
（8）Se Pes 12345678
（12345678

领城级 12345678

## 4 Draw



5 How many？


Which group has more？or ？

## Number $9 \cdot$ nine

I Write the number 9 .


2 Join Waldo to 9 instruments.


## 3 Circle) 9 sheep.



4 Write the missing numbers.


5 Count the dots. Match.


6 Circle the cards that show 9.

| $\star \star \star$ |
| :--- |
| $\star \star \star$ |
| $\star \star \star$ |





## Number $10 \cdot$ ten

I Write the number 10 .

$\qquad$

2 How many? (Circle the dominoes that have 10 .


3 Draw the correct number of things.
$\square$


100

4 Fill in the missing numbers.


5 Match and colour.


## 6 Draw dots.



## Numbers to IO

I Complete the number line.


2 Count the dots. Join to the number line.


3 Complete the number line.


4 Join the pieces together.

| 5 | 6 | 7 |
| :--- | :--- | :--- |


| 6 | 7 | 8 |
| :--- | :--- | :--- |


| 1 | 2 | 3 |
| :--- | :--- | :--- |


| 8 | 9 | 10 |
| :--- | :--- | :--- |


| 3 | 4 | 5 |
| :--- | :--- | :--- |


| 4 | 5 | 6 |
| :--- | :--- | :--- |

5 Count forward 3 places. (Circle the number.


## Counting to ten

I How many?

| $m^{0}$ |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |


|  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |

$\square$



2 Draw lines to match.


3 Circle the bigger number in each pair.

| $(1)$ | $O$ | $C$ | $O$ |  |
| :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |


| $($ | 0 | 0 | 0 | 0 |
| :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |




4 Colour.


9


5 How many?


Number names six to ten
Trace and match.


## Pick a number

## I Pick a number between 6 and IO. Write it.

$\square$
2 Is this your number? Circle yes or no.


3 Draw your number in 3 ways.


4 Write your number word.
$\qquad$
$\qquad$

5 Circle your number.


## You will need scissors © and a partner (-).

I Cut out the bingo cards.
2 Fill in your bingo card. Write one number in each panel.
3 Put your cards face down in a pile. Take turns to turn the top card over.
4 If it matches a number on your numbers, cross it out.
5 The first one to cross out all six numbers is the winner. BINGO!

Write a number between I and 10 in each panel.

## 



## Bingo Cards



## Numbers II and I2 • eleven • twelve

I Write the numbers || and I2.


2
Match.


3 Complete each sum.


## 4 Draw 10 more sheep.



Complete. $\quad 1+\boxed{I O}=\square$
5 Show each number in the ten frames. Complete the sums.


12



6 Complete the number line.


## Numbers 13, 14, 15 • thirteen • fourteen • fifteen

I Write the numbers 13,14 and 15 .


2 Match.


3 Colour.


$$
10+\square=1310+\square=14
$$

4 Complete the ten frames to make the number．



5 Match．
13
（15）
fourteen

Mmmum
『『『
thirteen
MTMTITITM『『『『

Numbers 16 and $17 \cdot$ sixteen $\cdot$ seventeen
I Write the numbers 16 and 17 .


2 Match.


3 Draw more blocks to make each number.


$$
10+6=\square \mid 10+7=\square
$$

4 Show each number in the ten frames. Complete the sums.

16

|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
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| :--- | :--- | :--- | :--- | :--- |
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$$
10+\square=\square 16
$$

17

|  |  |  |  |  |
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| :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |

5 Circle the smaller number. Cross $X$ out the larger number.

| (8) 16 | ${ }^{1}$ | 0 |
| :---: | :---: | :---: |
|  | 13 | (17) |
|  | $\begin{array}{r} 990 \\ 909010 \\ 901010 \end{array}$ | $\begin{array}{r} 9601 \\ 90101 \\ 9011101 \end{array}$ |

6 Write the missing numbers.


Numbers 18, 19, 20 • eighteen • nineteen • twenty
I Write the numbers 18,19 and 20 .


2 How many?


3 Draw 10 more fish.


Complete. $\square$ $10+10=\square$

4 Colour to make each number.

19

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## $10+\square=19$

|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |
|  |  |  |  |  |



5 Complete.


6 Write the missing numbers.


## Number names eleven to twenty

I Match. Trace the number names.


## 2 Colour.

fifteen
eleven

thirteen
fourteen

$\bigcirc(-) \cdot() \cdot() \cdot() \cdot()$

## 3 Match.



## 4 Colour.

eighteen
为为
sixteen

$\begin{array}{ll}\text { seventeen } & 00000000 \\ 000000000\end{array}$
nineteen

## Counting II to 20

I Draw dots to match. Write the number.
eleven
::::0:

|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |


twelve

$\square$
$\square$ thirteen

$\square$
$\square$
fourteen

$\square$
$\square$
fifteen

$\square$
$\square$ sixteen

$\square$
$\square$ seventeen -0:0: $\square$
$\square$ eighteen

$\square$
$\square$ nineteen

$\square$
$\square$ twenty

$\square$


2 Complete.


3 Write the number.


4 How many?


5 Count to 20. Write the missing numbers on the chart.

| 1 | 2 |  |  | 5 |
| :---: | :---: | :---: | :---: | :---: |
| 6 |  | 8 |  | 10 |
|  | 12 |  | 14 |  |
| 16 | 17 |  |  |  |

## Lots of legs

I Mango sees $\underline{5}$. How many legs? Draw and count.


2 Dizzy sees 4 0.0. How many legs? Draw and count.


## 3 Ruby sees $\underline{4}$. How many legs?

 Draw and count.

4 Who sees the most legs?


## Three in a row

## You will need:



* and a partner


## -

My colour $\qquad$ My partner's colour

1 Roll the 3 dice.
$\underline{2}$ Count the dots.
3 Trace the number.


Numbers 21 and $22 \cdot$ twenty-one $\cdot$ twenty-two
I Write the numbers 21 and 22 .


## 2 Match.



3 Draw IO more shells.


How many shells?

4 Show each number in the ten frames.

## 21

|  |  |  |  |  |
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22

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5 Circle the smaller number. Cross $X$ out the larger number.
2218



## (22) 21





6 Complete.


Numbers 23, 24, $25 \cdot$ twenty-three • twenty-four - twenty-five

I Write the numbers 23,24 and 25 .


2 Match.


3 Colour 24.


4 Show each number in the ten frames.

23

|  |  |  |  |  |
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## 5 How many?



6 Complete.


Numbers 26 and $27 \cdot$ twenty-six • twenty-seven
I Write the numbers 26 and 27.


2 Match.


3 Draw 10 more balls.

$$
\begin{aligned}
& 00000 \\
& 00000 \\
& 00000
\end{aligned}
$$

How many balls altogether?

4 Show each number in the ten frames.

## 26

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27

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|  |  |  |  |  |

5 Circle the smaller number. Cross $X$ out the larger number.

| 26 | 16 |  |  |
| :---: | :---: | :---: | :---: |
|  |  | 19 | 27 |
| 27 | $26$ |  |  |

6 Complete.
$20 \square 24 \square \square$

Numbers 28, 29, $30 \cdot$ twenty-eight • twenty-nine - thirty

I Write the numbers 28,29 and 30 .


2 Match.


## 3 Colour 29



4 Show each number in the ten frames.

## 28

|  |  |  |  |  |
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30

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| :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |

5 How many?


## 6 Complete.



## Number names twenty to thirty

I Match. Write the number names.


2 Colour.

twenty-three $q 3$ dis dis dis dis di $q 13 d B d B$


twenty-nine



3 Match.


4 Colour the matching number. twenty-six = red twenty-seven = orange twenty-eight = yellow twenty-nine = green thirty $=$ purple


## Counting to 30

I Write the missing numbers.


3 Write the number.


4 How many?


5 Show each number in the ten frames.
twenty-four

|  |  |  |  |  |
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|  |  |  |  |  |

twenty-nine
$\square$
$\square$

|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |

6 Complete the dot to dot. Colour.


Guess and check
You will need 30 counters $\square$ or cubes $\square$ $\square$.

1 Grab a handful of counters.
2 Put them on the table in front of you.
3 Look quickly, then cover them up.
4 Estimate (guess) how many there are.
5 Write the number.
6 Now count them.

$\underline{7}$ How close was your guess? Colour the face.
8 Play with a partner. Who had the best guess?


## Word problems

Show each answer in the ten frames.

Ruby has 13 .
Doc has 14 .
How many altogether?

|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
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|  |  |  |  |  |

There are

3 Waldo has II
Dizzy has 10 How many altogether?

|  |  |  |  |  |
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There are $\square$

2 Mango has 15
Dizzy has 10
How many altogether?

|  |  |  |  |  |
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|  |  |  |  |  |

There are
4 Ruby has 21 Doc has 9 . How many altogether?

|  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
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| :--- | :--- | :--- | :--- | :--- |
|  |  |  |  |  |

There are $\square$.

5 How many dots altogether?


There are $\square$ dots.

7 Which number comes before?


6 Which numbers are missing?


8 Order the cards from least to greatest.


## Counting on

## I Count on to 10 .



2 Count on to 20


## 3 Count on to 30.



## Counting back from 20

Write the missing numbers.


2 Complete.


3 Write the missing numbers.


Mango jumps back 4 places. She lands on number

## Counting back from 30

I Write the missing numbers.


2 Snowy jumps back 3 spaces.
He lands on number $\qquad$


3 Frog jumps back 4 spaces.
She lands on number $\qquad$

(25)-26-27-28-29-30

## Before and after

## Circle the number

$$
\text { before } 15 \text {. }
$$



$$
\text { before } 29 .
$$

after 24.
$\begin{array}{lllllllllll}20 & 21 & 22 & 23 & 24 & 25 & 26 & 27 & 28 & 29 & 30\end{array}$
$\stackrel{\mid}{4}$ | 1 | $\mid$ | 1 | $\mid \longrightarrow$
2 Write the numbers that come before and after.

3 Write the numbers that come 2 before and 2 after.


4 Write the numbers that come 3 before and 3 after.


## Comparing

## Count.



Cross $X$ out the tank with more fish.
2 (Circle the group that has fewer.

(2) Co



## 3 Count the spots.



Which dominoes have the same number? Colour them.

## More, fewer, the same

Circle the correct words.
$\square$
$\bullet \bullet \bullet \bullet \bullet$
$\bullet \bullet \bullet \bullet \bullet$
$\bullet \bullet \bullet \bullet \bullet$
is more than
is fewer than
is the same as

is more than
is fewer than
is the same as


2 Mango has 20 bananas. Draw
$\square$
fewer bananas.

more bananas. the same number.


Write a number that is more than 15.


Write a number that is less than 30.

## Comparing numbers

1 Circle) the smaller number. Cross $X$ out the larger number.


2

|  |  |  |  |
| :--- | :--- | :--- | :--- |


| $\star$ | $\star$ | $\star$ | $\star$ | $\star$ |
| :---: | :---: | :---: | :---: | :---: |
| $\star$ | $\star$ | $\star$ |  |  |

How many stars?
Write a number that is bigger.


Write a number that is smaller.

## 3 Colour the larger number.



4 Order from largest to smallest.


27

$9 \quad 16$
II 23


23
17


14
25
30
12
23

26

5 Order from smallest to largest.


## Comparing tens and ones

I Use tens and ones blocks to make each pair of numbers.

- Draw them.
- Colour the larger number.
20 and 15 and 22

| tens | ones |
| :--- | :--- |
|  |  |
|  |  |
|  |  |



| tens | ones |
| :--- | :--- |
|  |  |
|  |  |
|  |  |


| tens | ones |
| :--- | :--- |
|  |  |
|  |  |
|  |  |

18 and 24
23 and 12

| tens | ones |
| :--- | :--- |
|  |  |
|  |  |
|  |  |



| tens | ones |
| :--- | :--- |
|  |  |
|  |  |
|  |  |
|  |  |


| tens | ones |
| :--- | :--- |
|  |  |
|  |  |
|  |  |
|  |  |

## Count and compare

You will need 4 bowls marked $a, b, c, d \square$ and counters $O$.
Put some counters in each bowl. Follow these rules:

- One bowl has the most.
- One bowl has the fewest.
- Two bowls have the same number.

I Count. Write the number for each bowl.


2 Complete.


## Domino train

You will need dominoes $\because \because:$ and a partner $(3)$.
Work with a partner to solve these domino trains.
Use real dominoes or draw your own.
Choose 3 dominoes to complete each train.
Draw your dominoes.


## You will need

- 2 sets of cards numbered 0-30 030
- and a partner (ن).

1 Shuffle your partner's cards. Give them back.
2 Start at the same time.
3 Line up the cards in order, starting from zero.
4 Say 'Order!' when you are finished.
5 The winner writes their name in the table.
Play games versus a new partner.

| Game A | Name | Game B | Name |
| :---: | :---: | :---: | :---: |
| 1 |  | 1 |  |
| 2 |  | 2 |  |
| 3 |  | 3 |  |
| 4 |  | 4 |  |
| 5 |  | 6 |  |
| 6 |  | 7 |  |
| 7 |  | 8 |  |
| 8 |  |  |  |

## Ordinal numbers Ist to 5th

I Colour Ist red, 2nd yellow, 3rd pink, 4th blue, 5th green.


2 Match the prize ribbon to each cat.


3 Complete.


## 4 Draw a:



5 Complete.


Who came first?
Who came second? $\qquad$
Who came third?
Who came fourth? $\qquad$
Who came fifth?

## Ordinal numbers Ist to IOth

I Match each word to its number.


2 Colour.
$\begin{array}{ll}\text { 3rd and 6th green } & \text { 2nd and 9th blue } \\ \text { Ist and IOth yellow } & \text { 4th and 8th orange }\end{array}$ 5th and 7th red


3 Complete the prizes for the cake contest.


Circle the answers.
Which cake came first?

$\qquad$


Which cake came fourth?


## Colours

I Colour the paint pots. Then colour the answer.


2 Colour. 2 red sheep, 2 blue sheep, 3 orange sheep, 3 green sheep, I yellow sheep, 2 purple sheep.



3 How many sheep?


4 Write the number word.

## Finding patterns

I Colour the socks with patterns on them.


2 Circle the patterns. Colour them.


3 Which lines show a pattern? Colour the patterns.


4 Are these patterns the same? Circle yes or no.




5 Copy the pattern. Draw the next shape.
○


Completing patterns
I Circle the picture that completes each pattern.


2 Complete each pattern.


3 Draw the missing shapes in each row.


4 Complete Doc's patterns.


Continuing patterns
I Draw the next 3 items in the pattern.





$\qquad$


2 Continue the pattern.


## Making patterns

I Colour your own patterns.


2 Make shape patterns using these shapes.


3 Colour the scarf using each colour pattern. red, yellow

red, red, yellow

red, yellow, yellow

red, yellow, green


4 Colour your own pattern.


Fixing and describing patterns
I Fix each pattern. Circle what is wrong.


Draw the pattern correctly.


The pattern on these beads is always $\cap$ -


2 Draw the missing beads.
*


Describe the pattern.


Describe the pattern.

3 Draw your own pattern.


Describe the pattern.

Ice-cream patterns
Investigate
Ice-cream flavours:
apple $=$ green, $\mathbf{b}$ anna $=$ yellow, chocolate $=$ brown .
Colour the ice-creams. Follow the pattern.

 pattern.


