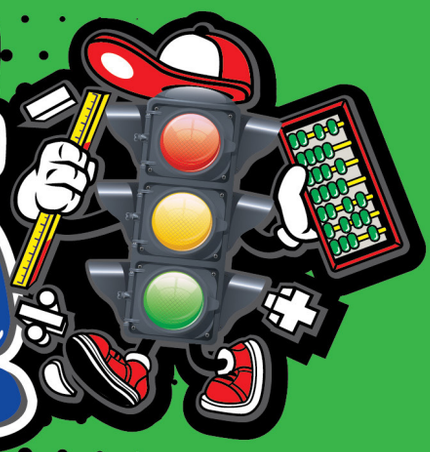
READY STEADY GO!



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2ND CLASS

MENTAL MATHS

John O'Donnell

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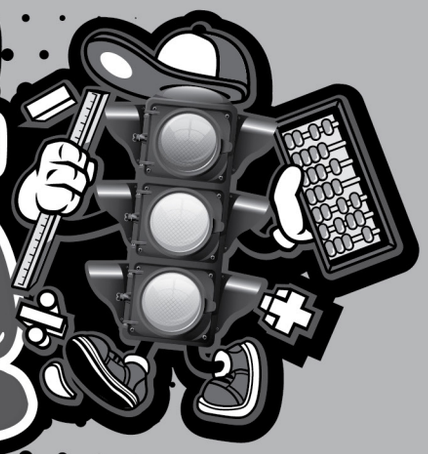

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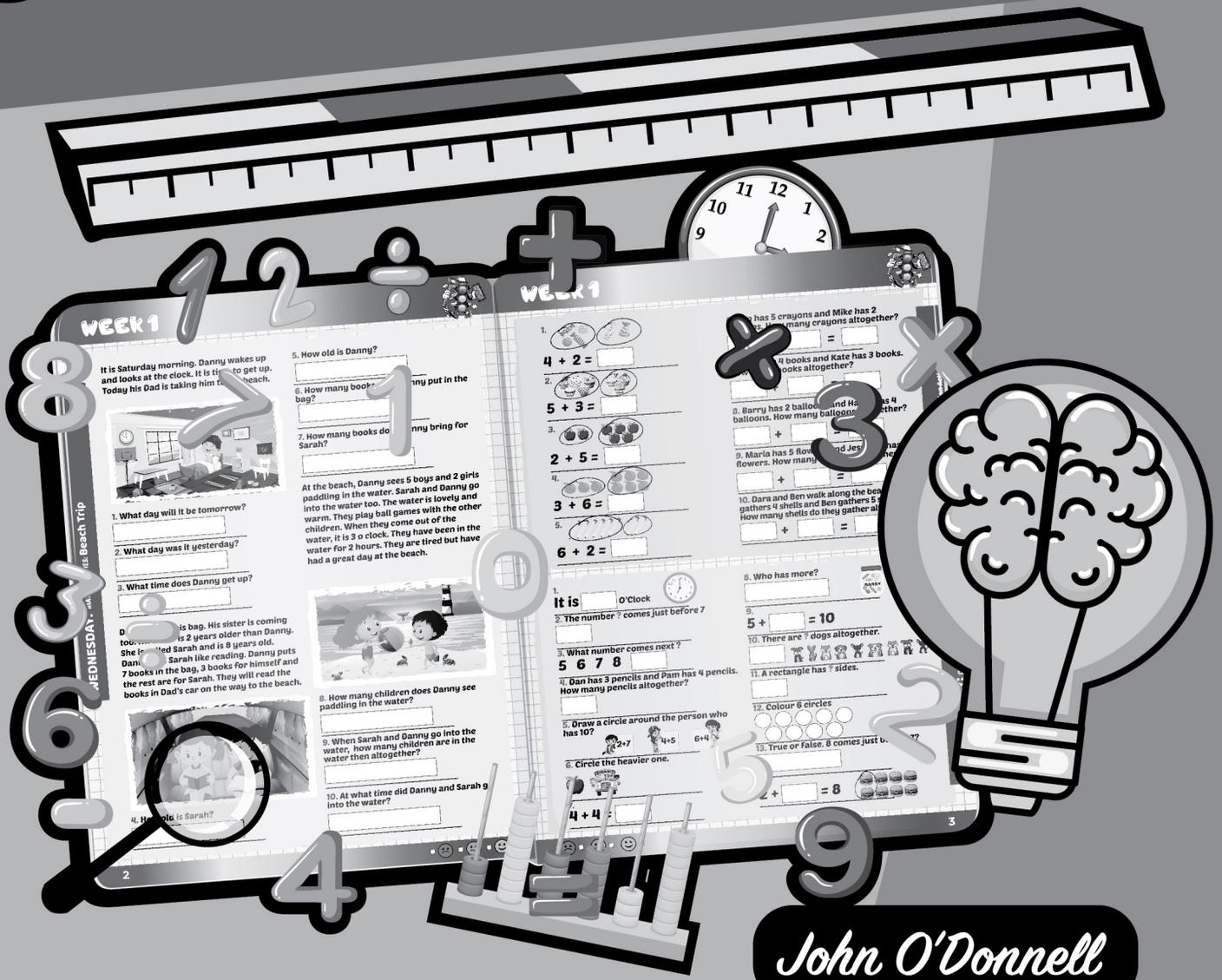
MENTAL MATHS



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HOW TO USE THIS BOOK

Ready Steady Go Maths is a Mental Maths programme for 1st to 6th Class primary school pupils. The programme is unique in that it actually teaches pupils the strategies and skills required to calculate and to solve mathematical problems mentally, thereby enabling pupils to fully engage with the Primary School Mathematics Curriculum.

Ready Steady Go Maths gives pupils a variety of approaches and strategies to make mental calculations using a step by step approach, appropriate to each class level and helps consolidate their problems solving skills.

The ***Ready Steady Go Maths*** programme is laid out in an easy to follow structure. The programme contains 160 units for each class level. There are 5 weekly lessons (Monday – Friday) rolled out over a period of 32 weeks each school year.

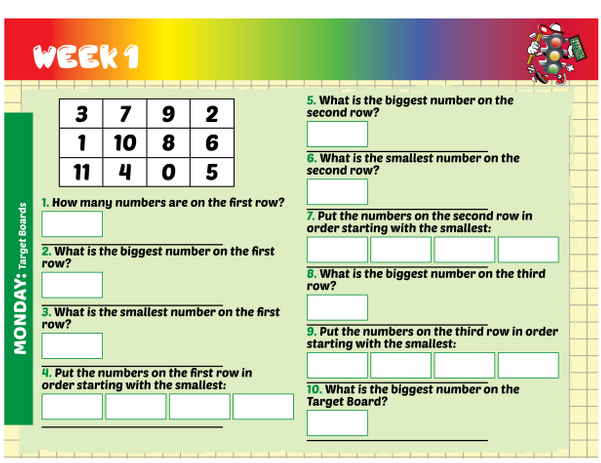
The ***Ready Steady Go Maths*** programme may be used as a warm-up ahead of existing daily Maths lessons. It may also be used as a stand-alone programme to teach Mental Maths or as assigned nightly homework. Whatever way Ready Steady Go Maths is used, the programme is the ideal complement to the Primary School Mathematics Curriculum.

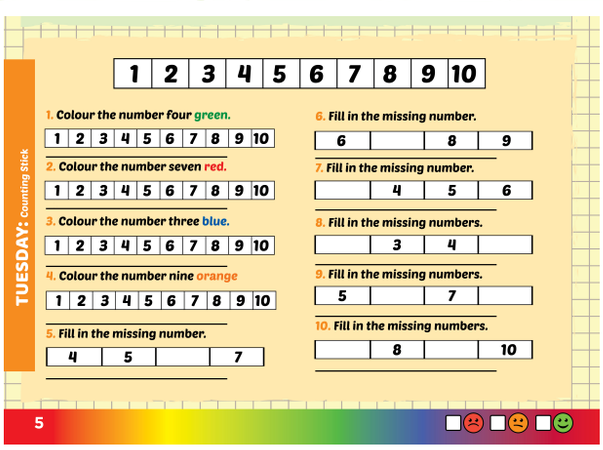
Self-assessment

At the end of each page there is a self-assessment section which gives pupils the opportunity to reflect on their learning and which provides useful feedback to the teacher on how each pupil is progressing.

Mondays

Monday lessons focus entirely on **Target Board** activities which are ideal for teaching the language of Mathematics in general and the language of **Number** and **Problem Solving** in particular, in a fun and stimulating way. Pupils are provided with opportunities to explore the relationship between numbers and to consolidate mathematical learning through a variety of easy to follow questions.





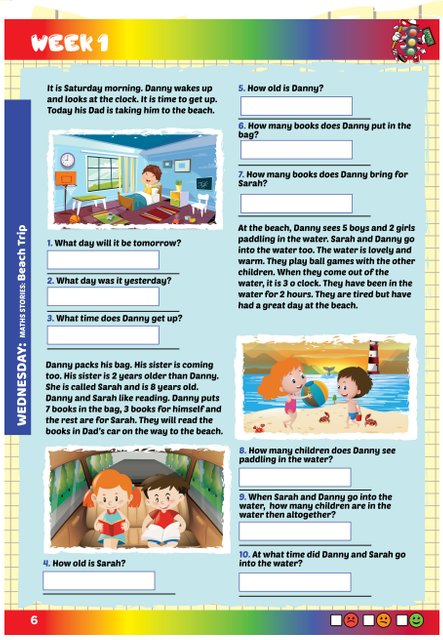
Tuesdays

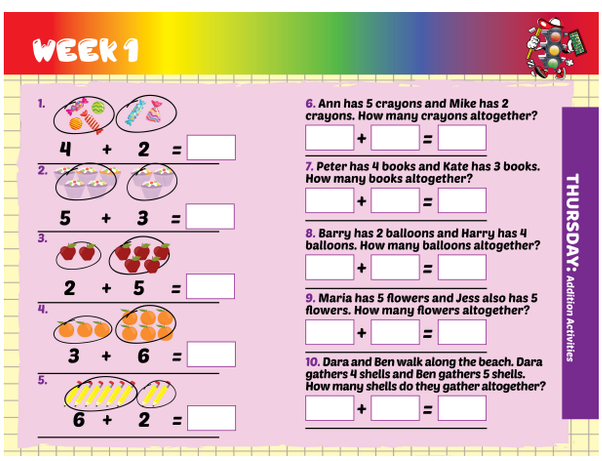
Tuesday lessons focus on the **Counting Stick**, **Number Strips** and the **Hundred Square.** Pupils are introduced to counting forwards and backwards and thereby exploring number patterns and the relationships between numbers.

HOW TO USE THIS BOOK

Wednesday

Wednesday lessons focus on **problem solving**. Pupils are introduced to the characters of Danny and Sarah through a series of interesting **Mathematical stories** and **word problems** based on these stories. They also learn strategies for problem solving and get the opportunities to practise these strategies through different types of problem solving such as **Practical Tasks, Puzzles** and **Word Problems.** In the 4th, 5th and 6th Class books, pupils are given a number of **real life problems** and investigations to research and solve online using information technology.



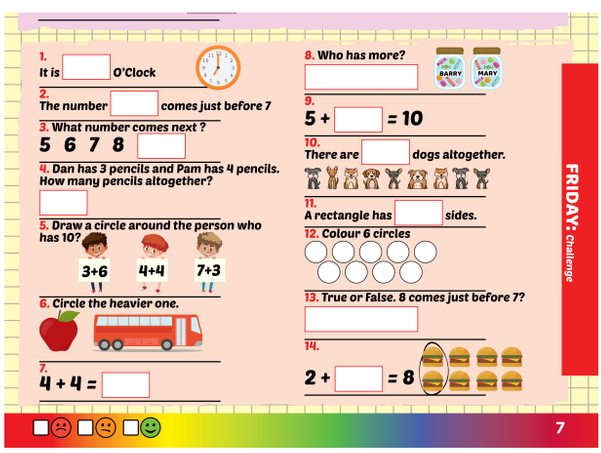


Thursday

Thursday lessons develop pupils' **mental maths skills** by teaching the pupils a variety of **strategies** for making **mental calculations.** The pupils are then provided with opportunities to apply these skills and strategies with **structured questions** based on the skill being developed.

Fridays

Friday lessons focus on developing pupils' **all round mental abilities** through a series of **simple but challenging questions** which consolidates work already done through the Ready Steady Go Maths programme.



Worked Examples

Pupils are provided with worked examples throughout the Ready Steady Go Maths programme to demonstrate the skills and strategies being developed and which enables pupils to work independently of the teacher

Supplementary Materials

Large Class Target Boards incorporating the Target Boards in the pupil books are available to teachers in order to conduct class lessons. These Class Target Boards also contain a series of new Target Boards and activities not available in the pupil books which are extremely valuable in consolidating learning and in **differentiating** for pupils according to ability.
There is also a supplementary Teacher Manual for each class level containing the answers to all questions in the respective class pupil books.

MONDAY: Target Boards

7	11	14	6
1	16	5	9
17	12	15	2
10	8	3	13

Look at all the numbers on the first row. My target number for the first row is 10

1. What must I add to 7 to reach 10?

2. What must I take away from 11 to reach 10?

3. What must I take away from 14 to reach 10?

4. What must I add to 6 to reach 10?

Look at all the numbers on the third line. My target number for the third line is 11

5. What must I take away from 17 to reach 11?

6. What must I take away from 12 to reach 11?

7. What must I take away from 15 to reach 11?

8. What must I add to 2 to reach 11?

9. What two numbers on the fourth row can you add to make 11?

___ + ___ = 11

10. Make an addition number sentence using three of the numbers on the first column:

___ + ___ = ___

TUESDAY: Counting Stick

3	4	5	6	7	8	9	10	11	12

1. Colour the number that comes just before six green.

3	4	5	6	7	8	9	10	11	12

2. Colour the number that comes just after eight red.

3	4	5	6	7	8	9	10	11	12

3. Colour the number that comes just before eleven blue.

3	4	5	6	7	8	9	10	11	12

4. Colour the number that comes between seven and nine orange.

3	4	5	6	7	8	9	10	11	12

5. Fill in the missing numbers.

	9	10	

6. Fill in the missing numbers.

7	8		

7. Fill in the missing numbers.

11			8

8. Fill in the missing numbers.

	9	8	

9. Fill in the missing number.

4	6	8	

10. Fill in the missing number.

10	8		4

It is Thursday morning. Danny and Sarah have visitors. Their cousins, Max and Beth are on holidays from England. They arrived in Ireland two days ago and are going home again tomorrow. Max is 9 and is the same age as Sarah. Beth is 7 and is the same age as Danny.

1. On what day did Max and Beth arrive in Ireland?

2. On what day will Max and Beth go home again?

3. What is the sum of Max and Beth's ages?

4. What is the sum of Max and Sarah's ages?

Max and Beth brought presents for Danny and Sarah. Max gave Danny a ball and Beth gave Sarah a box with a surprise inside.

5. What 3-D shape is Danny's present?

6. What 3-D shape is the box that Beth gave Sarah?

Max and Beth's flight home leaves at 6 o'clock tomorrow evening. They need to be in Dublin Airport an hour before their flight. The flight home takes an hour. The journey from Danny and Sarah's house to the airport will take 2 hours.

7. At what time do Max and Beth need to be at Dublin Airport?

8. How many minutes does the flight home take?

9. At what time will Max and Beth arrive back in England?

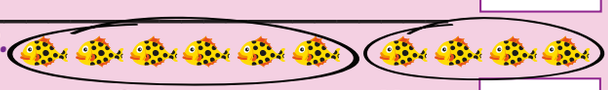
10. At what time will Max and Beth need to leave Danny and Sarah's house to get to the airport?

WEEK 1

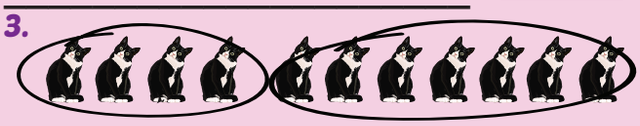
THURSDAY: Number Work

1.

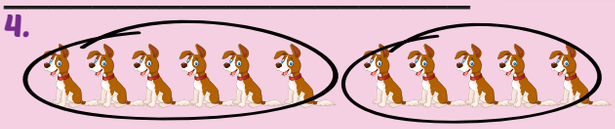
5 + 4 = ☐

2. 

6 + 4 = ☐

3. 

4 + 7 = ☐

4. 

6 + 5 = ☐

5.

7 + 5 = ☐

6. Mel has 6 bananas and Linda has 6 bananas. How many bananas altogether?

☐ + ☐ = ☐

7. Tim has 4 apples and June has 8 apples. How many apples altogether?

☐ + ☐ = ☐

8. Meg has 11 sweets and gives away 4 of them. How many has she left?

11 - 4 = ☐

9. Jade has 12 marbles and gives away 3 of them. How many has she left?

☐ - ☐ = ☐

10. Sean has 12 stickers and gives away 5 of them. How many has he left?

☐ - ☐ = ☐

FRIDAY: Challenge

1.

5 + ☐ = 11

2. What time is it?

☐

3. What day is the last day of September?

☐

SEPTEMBER

M	T	W	T	F	S	S
					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

4. How many faces has a cuboid?

☐

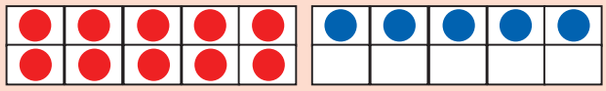
5.

43 + 20 = ☐

6. Draw a circle around half the tennis balls.

7.

18 - ☐ = 10

8. 

How many dots altogether?

☐

How many more dots to make 20?

☐

9. What number comes between 10 and 12?

☐

10. Cody has 14 socks. 2 pairs of them are white. The rest are black. How many black socks does Cody have?

☐

12.

3 + 7 + 8 = ☐

MONDAY: Target Boards

9	8	3	14
16	6	18	12
7	17	11	4
13	5	15	10

Look at all the numbers on the first row. My target number for the first row is 12

1. What must I add to 9 to reach 12?

2. What must I add to 8 to reach 12?

3. What must I add to 3 to reach 12?

4. What must I take away from 14 to reach 12?

5. Find three numbers on the Target Board that add up to make 12:

___ + ___ + ___ = 12

Look at all the numbers on the third row. My target number for the third row is 13

6. What must I add to 7 to reach 13?

7. What must I take away from 17 to reach 13?

8. What must I add to 11 to reach 13?

9. What must I add to 4 to reach 13?

10. What two numbers on the second column can you add to make 13?

___ + ___ = 13

TUESDAY: Counting Stick

4	5	6	7	8	9	10	11	12	13

1. Colour the number that comes just before thirteen green.

4	5	6	7	8	9	10	11	12	13

2. Colour the number that comes just after ten red.

4	5	6	7	8	9	10	11	12	13

3. Colour the number that comes between nine and eleven blue.

4	5	6	7	8	9	10	11	12	13

4. Colour the number that comes just after twelve orange.

4	5	6	7	8	9	10	11	12	13

5. Draw a circle around each of the even numbers.

4	5	6	7	8	9	10	11	12	13

6. Fill in the missing numbers.

9		11	

7. Fill in the missing numbers.

	11	12	

8. Fill in the missing numbers.

	12		10

9. Fill in the missing numbers.

12			9

10. Fill in the missing number.

5	7	9	

Danny and Sarah are back at school. There are 19 children in Danny's class, 10 boys and the rest are girls. In Sarah's class, there are 8 boys and 12 girls.

1. How many girls are in Danny's class?

2. How many children are in Sarah's class?

3. What is the sum of the number of boys in Danny's and Sarah's classes?

4. What is the difference in the number of girls in Sarah's class and the number of girls in Danny's class?

Danny and Sarah need lots of new copybooks for school. Danny needs 7 copybooks and Sarah needs 12 copybooks. Danny's copybooks are all covered red. Sarah covers half of her copybooks red and the other half blue.

5. How many copybooks do Danny and Sarah have altogether?

6. How many copybooks does Sarah cover blue?

7. How many of Danny and Sarah's copybooks are covered red altogether?

Sarah's teacher asks the children about their holidays. Half of the boys in her class went to the beach and half of the girls in her class also went to the beach.

8. How many of the boys in Sarah's class went to the beach?

9. How many of the girls in Sarah's class went to the beach?

10. How many of the children in Sarah's class went to the beach altogether?