New Wave
Mental Maths

Revised for the **new Primary Mathematics Curriculum**

New Wave
Mental Maths
3rd Class
Revised edition
Eddy Krajcar

New Wave
Mental Maths
4th Class
Revised edition

New Wave
Mental Maths
2nd Class
Revised edition
Eddy Krajcar

New Wave
Mental Maths
5th Class
Revised edition
Prim-Ed

New Wave
Mental Maths
1st Class
Revised edition
Eddy Krajcar

New Wave
Mental Maths
6th Class
Revised edition
Prim-Ed
Eddy Krajcar

tens   ones

SAMPLE
BOOKLET

Prim-Ed
Publishing

Ireland's favourite maths series, revised for the new Primary Mathematics Curriculum!
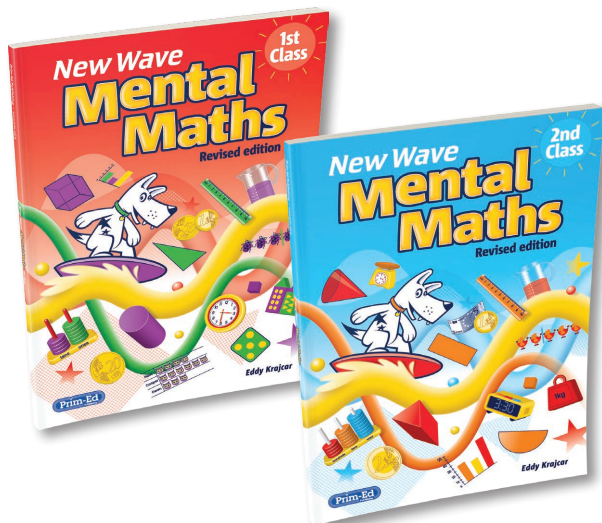
The introduction of the new Primary Mathematics Curriculum brings several new features to *New Wave Mental Maths*. The most notable changes include an increased emphasis on learning through playing and problem-solving.

The five key learning practices in focus are:
- using cognitively challenging tasks;
- fostering productive disposition;
- promoting 'Maths Talk';
- emphasising mathematical modelling; and
- encouraging playfulness.

These complement the proven mental maths approach of reinforcing learning through weekly practice and speed repetition using:
- a structured daily mental maths programme for the whole school year;
- pictorial and written representations of problems in both the problem-solving and daily columns; and
- sequential development of mathematical concepts and vocabulary.

Maths Talk NEW!

'Maths Talk' is a collaborative process where children's thinking, ideas, and strategies are shared and discussed. It uses different forms of communication (questioning, listening, and explaining) to promote mathematical understanding in all pupils. This section:

- reviews thinking strategies via direct questions;
- reinforces concepts through different learning styles;
- uses discussion topics that are aligned directly with the curriculum;
- encourages questions and answers in groups or pairs as sharing answers supports differentiation and collaboration; and
- provides flexible tools for teachers.

Maths Vocabulary NEW!

- New section after 'Maths Talk'
- Questions related to concepts
- Comprehension and literacy
- Supports learning styles as includes some visual representation

Questions NEW!

- Reinforcing concepts in different ways
- Strategy focus for the week
- Instruction in Monday column
- The concept flows through the entire week

Why *New Wave Mental Maths*?

Mental maths strategies are the foundation for most areas of mathematics. Without efficient mental strategies, children can often struggle to quickly and fluently calculate.
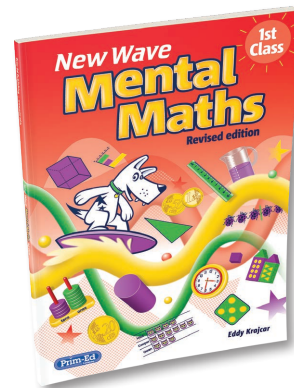
Reasons to love *New Wave Mental Maths*

'This product is essential for my classroom because I want my pupils to achieve better results in mathematics by reinforcing concepts through daily practice.'

'I enjoy using this product because I can work independently as well as in a group. As the weeks go by, I gain more and more confidence in mathematics.'

'This product provides me with the peace of mind that my child is following a well-structured mathematics programme that consolidates the requirements of the curriculum at home.'

The Comprehensive Teacher Manual

The *New Wave Mental Maths Teacher* Manual is provided as a support document for teachers to assist with the introduction, day-to-day implementation, assessment, and correcting involved in using *New Wave Mental Maths*.
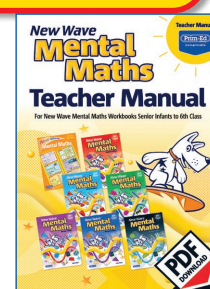
And there's an online portal that allows teachers to ...

- Project onto a whiteboard to review the daily activities within the classroom and to showcase answers.
- Quickly recap concepts tied to tricky questions and tackle them again together.
- Create an account to get started.

New Wave Mental Maths

New Wave Mental Maths
1st Class
Revised edition

Prim-Ed
Eddy Krajcar

Week 5

Boxed weekly focus questions in younger year levels (1st–4th Class) use examples to offer a core concept or strategy to teach, practice, and reinforce across the week.
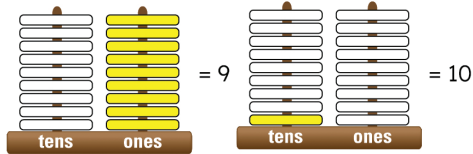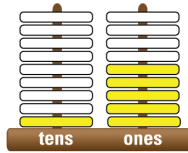
Monday

Using tens and ones

= 9   = 10

The number after 9 is 10. We cannot fit 10 ones on the ones rod. So, we change it to **1 ten** and **zero ones**.

1. 1 ten + 5 ones =

10 + _____ = 15

2. 9 – 1 = _____

3. How many corners?

_____

4. Draw a line to match each word to its numeral.

6	7	8	9
eight	nine	seven	six

5. _____ o'clock

6. How many more to make 6 fish?

_____

7. Tick the longest ruler.

A ☐
B ☐
C ☐

Tuesday

1. 1 ten + 2 ones =

_____ + 2 = 12

tens   ones
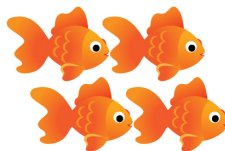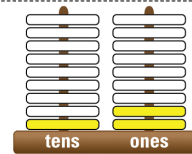
2. 8 + 0 = _____

3. _____ o'clock

4. The lighter load is _____.

PICK ME!   NO, PICK ME!

A   B

5. Shape A is [2-D | 3-D].

A

Shape B is [2-D | 3-D].

B

6. March, April,

May	February	June

7. Colour 5 + 3. Total? _____

1	2	3	4	5	6	7	8	9	10

8. How many corners?

_____

9.

New Wave Mental Maths

4

Wednesday

1. _____ ten + 7 ones =

_____ + _____ = _____

tens   ones
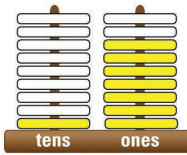
2. 8 + 0 = _____

3. The top left has _____.

5	Z	Q
T	7	E

4. Draw a line to match each word to its numeral.

4   5   6   7

five   six   seven   four

5.

 = _____
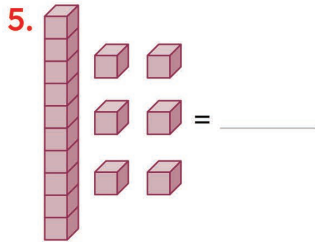
6. Colour the rectangle.

7. Tick the longest ruler.

A □
B □
C □
D □

8. 8, 9, _____, 11, 12, 13, _____

9. Colour 16.
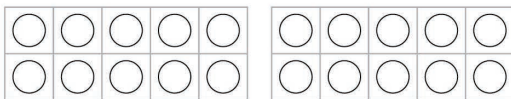
Thursday

1. _____ tens + 0 ones =

_____ + 0 = 20
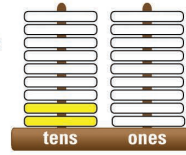
tens   ones

2. 0 + 9 = _____

3. 10 + 5 = (a) 6   □
         (b) 15   □
         (c) 105   □

4. Colour 3 + 4 + 3. Total? _____

1	2	3	4	5	6	7	8	9	10

5. Order from longest (1) to shortest (3).

_____
_____
_____

6. Tick the pattern going up in 2s.

(a) 2, 4, 5, 8, 10   □

(b) 2, 4, 6, 8, 10   □

(c) 2, 4, 5, 8, 9, 10 □

7. Colour 15.
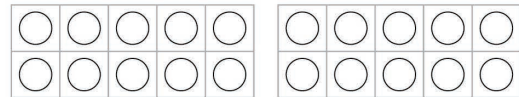
8. 7 − 5 = _____

9. = _____

Week 10

Monday

Decomposing place value of 3 digits

Example: What makes up 132?

Hundreds	Tens	Ones
1	3	2

100 + 30 + 2

1. What makes up 125?

Hundreds	Tens	Ones
1	2	5

_____ + _____ + _____

2. What time is this?

   (a) A quarter to 3 ☐

   (b) A quarter to 4 ☐

3. 14 − 14 = _____

4.

	100	
before		after

5. From the 👧, go south 2, east 2, north 1, and west 1. Tick the new position.

6. Order Mr Teecha's day from the earliest (1) to the latest (4).

   6 pm – made dinner _____

   5.45 pm – corrected spelling tests _____

   6.30 am – arrived at school _____

   4.30 am – swam at Icy Cold Beach _____

7. 2 + 2 + 3 + 3 = _____

Tuesday

1. What makes up 167?

Hundreds	Tens	Ones
1	6	7

_____ + _____ + _____

2. 10 + 7 = _____

3. 17 − 10 = _____

4. A week has _____ days.

MARCH

SUN	MON	TUE	WED	THU	FRI	SAT
						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					

5. What date is the first Sunday in March? _____

6. What date is the first Wednesday in March? _____

7. Which 2 squares are shaded equally?
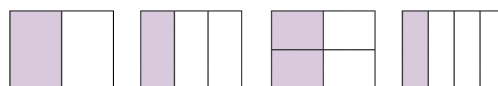
   (a) $\frac{1}{2}$ ☐ (b) $\frac{1}{3}$ ☐ (c) $\frac{2}{4}$ ☐ (d) $\frac{1}{4}$ ☐

8. Finish the growing pattern.

9. €1.10 =

   (a) ☐   (b) ☐   (c) ☐

Engaging artworks act as visual aids to represent complex concepts while testing mathematical knowledge using real-world objects.
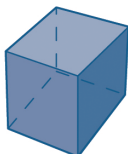
New Wave Mental Maths

6

Wednesday

1. What makes up 140?

Hundreds	Tens	Ones
1	4	0

_____ + _____ + _____

2. How many corners?

_____

3. $15 - 15 =$ _____

4. The month with less than 30 days is

(a) July. ☐

5. $8 + 2 =$ _____

FAVOURITE FRUITS

(CHILDREN: banana, pear, kiwi, apple)

6. Which fruit was the least popular? _____

7. How many children liked pears? _____

8. Chef baked 17 cakes and later baked 4 cakes. How many cakes were baked altogether? Write as a number sentence.

_____

9.

= _____ c or € _____ .

Thursday

1. What makes up 104?

Hundreds	Tens	Ones
1	0	4

_____ + _____ + _____

2. Which 2 angles are the same size?

_____ and _____

3. What time is this?

(a) A quarter to 5 ☐
(b) A quarter to 6 ☐

4. The **afternoon** begins after

(a) midnight. ☐
(b) midday (noon). ☐
(c) dawn. ☐

5. Colour the top view of a cuboid.

6.
$$\begin{array}{r} 77 \\ -\ 44 \\ \hline \end{array}$$

7.

even	20	18	16	14
– even	– 10	– 10	– 10	– 10
	_____	_____	_____	_____

even – even = odd ☐ even ☐

8. 300, 400, 500, 600, _____, _____, _____

9. $90 + 10 =$ _____

Subtle horizontal dividing lines to aid comprehension through indicating question flow.

Maths Facts

Number

Place value

	thousands	hundreds	tens	ones	•	tenths
	9	7	4	1	·	2

9 7 4 1 . 2
9 0 0 0 . 0
7 0 0 . 0
4 0 . 0
1 . 0
. 2

Counting numbers

9	10	11
99	100	101
199	200	201
299	300	301
399	400	401
499	500	501
599	600	601
699	700	701
799	800	801
899	900	901
999	1000	1001

Decimals and fractions

0	$\frac{1}{10}$	$\frac{2}{10}$	$\frac{3}{10}$	$\frac{4}{10}$	$\frac{5}{10}$	$\frac{6}{10}$	$\frac{7}{10}$	$\frac{8}{10}$	$\frac{9}{10}$	1
0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0

0   0.1   0.2   0.3   0.4   0.5   0.6   0.7   0.8   0.9   1.0
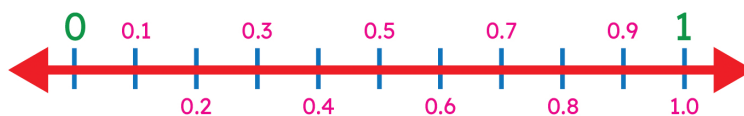
Fractions

1 whole									
$\frac{1}{2}$					$\frac{1}{2}$				
$\frac{1}{3}$			$\frac{1}{3}$			$\frac{1}{3}$			
$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$		$\frac{1}{4}$			
$\frac{1}{5}$	$\frac{1}{5}$		$\frac{1}{5}$		$\frac{1}{5}$		$\frac{1}{5}$		
$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$		$\frac{1}{6}$		$\frac{1}{6}$		$\frac{1}{6}$	
$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$	$\frac{1}{8}$		
$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$	$\frac{1}{10}$

$\frac{1}{2}$ =

$\frac{1}{4}$ =

$\frac{1}{5}$ =

$\frac{1}{8}$ =

$\frac{1}{10}$ =

$\frac{1}{4}$ of 16 =

= 4

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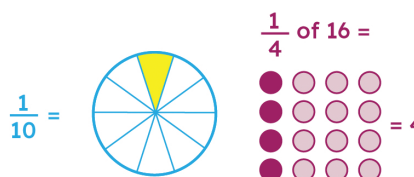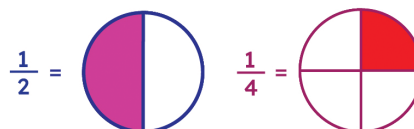
Maths Facts

Number

Multiplication and division facts

× 2	2 ×	÷ 2	quotient 2
1 × 2 = 2	2 × 1 = 2	2 ÷ 2 = 1	2 ÷ 1 = 2
2 × 2 = 4		4 ÷ 2 = 2	
3 × 2 = 6	2 × 3 = 6	6 ÷ 2 = 3	6 ÷ 3 = 2
4 × 2 = 8	2 × 4 = 8	8 ÷ 2 = 4	8 ÷ 4 = 2
5 × 2 = 10	2 × 5 = 10	10 ÷ 2 = 5	10 ÷ 5 = 2
6 × 2 = 12	2 × 6 = 12	12 ÷ 2 = 6	12 ÷ 6 = 2
7 × 2 = 14	2 × 7 = 14	14 ÷ 2 = 7	14 ÷ 7 = 2
8 × 2 = 16	2 × 8 = 16	16 ÷ 2 = 8	16 ÷ 8 = 2
9 × 2 = 18	2 × 9 = 18	18 ÷ 2 = 9	18 ÷ 9 = 2
10 × 2 = 20	2 × 10 = 20	20 ÷ 2 = 10	20 ÷ 10 = 2

× 3	3 ×	÷ 3	quotient 3
1 × 3 = 3	3 × 1 = 3	3 ÷ 3 = 1	3 ÷ 1 = 3
2 × 3 = 6	3 × 2 = 6	6 ÷ 3 = 2	6 ÷ 2 = 3
3 × 3 = 9		9 ÷ 3 = 3	
4 × 3 = 12	3 × 4 = 12	12 ÷ 3 = 4	12 ÷ 4 = 3
5 × 3 = 15	3 × 5 = 15	15 ÷ 3 = 5	15 ÷ 5 = 3
6 × 3 = 18	3 × 6 = 18	18 ÷ 3 = 6	18 ÷ 6 = 3
7 × 3 = 21	3 × 7 = 21	21 ÷ 3 = 7	21 ÷ 7 = 3
8 × 3 = 24	3 × 8 = 24	24 ÷ 3 = 8	24 ÷ 8 = 3
9 × 3 = 27	3 × 9 = 27	27 ÷ 3 = 9	27 ÷ 9 = 3
10 × 3 = 30	3 × 10 = 30	30 ÷ 3 = 10	30 ÷ 10 = 3

× 4	4 ×	÷ 4	quotient 4
1 × 4 = 4	4 × 1 = 4	4 ÷ 4 = 1	4 ÷ 1 = 4
2 × 4 = 8	4 × 2 = 8	8 ÷ 4 = 2	8 ÷ 2 = 4
3 × 4 = 12	4 × 3 = 12	12 ÷ 4 = 3	12 ÷ 3 = 4
4 × 4 = 16		16 ÷ 4 = 4	
5 × 4 = 20	4 × 5 = 20	20 ÷ 4 = 5	20 ÷ 5 = 4
6 × 4 = 24	4 × 6 = 24	24 ÷ 4 = 6	24 ÷ 6 = 4
7 × 4 = 28	4 × 7 = 28	28 ÷ 4 = 7	28 ÷ 7 = 4
8 × 4 = 32	4 × 8 = 32	32 ÷ 4 = 8	32 ÷ 8 = 4
9 × 4 = 36	4 × 9 = 36	36 ÷ 4 = 9	36 ÷ 9 = 4
10 × 4 = 40	4 × 10 = 40	40 ÷ 4 = 10	40 ÷ 10 = 4

× 5	5 ×	÷ 5	quotient 5
1 × 5 = 5	5 × 1 = 5	5 ÷ 5 = 1	5 ÷ 1 = 5
2 × 5 = 10	5 × 2 = 10	10 ÷ 5 = 2	10 ÷ 2 = 5
3 × 5 = 15	5 × 3 = 15	15 ÷ 5 = 3	15 ÷ 3 = 5
4 × 5 = 20	5 × 4 = 20	20 ÷ 5 = 4	20 ÷ 4 = 5
5 × 5 = 25		25 ÷ 5 = 5	
6 × 5 = 30	5 × 6 = 30	30 ÷ 5 = 6	30 ÷ 6 = 5
7 × 5 = 35	5 × 7 = 35	35 ÷ 5 = 7	35 ÷ 7 = 5
8 × 5 = 40	5 × 8 = 40	40 ÷ 5 = 8	40 ÷ 8 = 5
9 × 5 = 45	5 × 9 = 45	45 ÷ 5 = 9	45 ÷ 9 = 5
10 × 5 = 50	5 × 10 = 50	50 ÷ 5 = 10	50 ÷ 10 = 5

× 6	6 ×	÷ 6	quotient 6
1 × 6 = 6	6 × 1 = 6	6 ÷ 6 = 1	6 ÷ 1 = 6
2 × 6 = 12	6 × 2 = 12	12 ÷ 6 = 2	12 ÷ 2 = 6
3 × 6 = 18	6 × 3 = 18	18 ÷ 6 = 3	18 ÷ 3 = 6
4 × 6 = 24	6 × 4 = 24	24 ÷ 6 = 4	24 ÷ 4 = 6
5 × 6 = 30	6 × 5 = 30	30 ÷ 6 = 5	30 ÷ 5 = 6
6 × 6 = 36		36 ÷ 6 = 6	
7 × 6 = 42	6 × 7 = 42	42 ÷ 6 = 7	42 ÷ 7 = 6
8 × 6 = 48	6 × 8 = 48	48 ÷ 6 = 8	48 ÷ 8 = 6
9 × 6 = 54	6 × 9 = 54	54 ÷ 6 = 9	54 ÷ 9 = 6
10 × 6 = 60	6 × 10 = 60	60 ÷ 6 = 10	60 ÷ 10 = 6

× 7	7 ×	÷ 7	quotient 7
1 × 7 = 7	7 × 1 = 7	7 ÷ 7 = 1	7 ÷ 1 = 7
2 × 7 = 14	7 × 2 = 14	14 ÷ 7 = 2	14 ÷ 2 = 7
3 × 7 = 21	7 × 3 = 21	21 ÷ 7 = 3	21 ÷ 3 = 7
4 × 7 = 28	7 × 4 = 28	28 ÷ 7 = 4	28 ÷ 4 = 7
5 × 7 = 35	7 × 5 = 35	35 ÷ 7 = 5	35 ÷ 5 = 7
6 × 7 = 42	7 × 6 = 42	42 ÷ 7 = 6	42 ÷ 6 = 7
7 × 7 = 49		49 ÷ 7 = 7	
8 × 7 = 56	7 × 8 = 56	56 ÷ 7 = 8	56 ÷ 8 = 7
9 × 7 = 63	7 × 9 = 63	63 ÷ 7 = 9	63 ÷ 9 = 7
10 × 7 = 70	7 × 10 = 70	70 ÷ 7 = 10	70 ÷ 10 = 7

× 8	8 ×	÷ 8	quotient 8
1 × 8 = 8	8 × 1 = 8	8 ÷ 8 = 1	8 ÷ 1 = 8
2 × 8 = 16	8 × 2 = 16	16 ÷ 8 = 2	16 ÷ 2 = 8
3 × 8 = 24	8 × 3 = 24	24 ÷ 8 = 3	24 ÷ 3 = 8
4 × 8 = 32	8 × 4 = 32	32 ÷ 8 = 4	32 ÷ 4 = 8
5 × 8 = 40	8 × 5 = 40	40 ÷ 8 = 5	40 ÷ 5 = 8
6 × 8 = 48	8 × 6 = 48	48 ÷ 8 = 6	48 ÷ 6 = 8
7 × 8 = 56	8 × 7 = 56	56 ÷ 8 = 7	56 ÷ 7 = 8
8 × 8 = 64		64 ÷ 8 = 8	
9 × 8 = 72	8 × 9 = 72	72 ÷ 8 = 9	72 ÷ 9 = 8
10 × 8 = 80	8 × 10 = 80	80 ÷ 8 = 10	80 ÷ 10 = 8

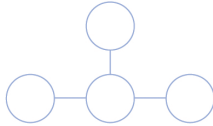| × 9	9 ×	÷ 9	quotient 9
1 × 9 = 9	9 × 1 = 9	9 ÷ 9 = 1	9 ÷ 1 = 9
2 × 9 = 18	9 × 2 = 18	18 ÷ 9 = 2	18 ÷ 2 = 9
3 × 9 = 27	9 × 3 = 27	27 ÷ 9 = 3	27 ÷ 3 = 9
4 × 9 = 36	9 × 4 = 36	36 ÷ 9 = 4	36 ÷ 4 = 9
5 × 9 = 45	9 × 5 = 45	45 ÷ 9 = 5	45 ÷ 5 = 9
6 × 9 = 54	9 × 6 = 54	54 ÷ 9 = 6	54 ÷ 6 = 9
7 × 9 = 63	9 × 7 = 63	63 ÷ 9 = 7	63 ÷ 7 = 9
8 × 9 = 72	9 × 8 = 72	72 ÷ 9 = 8	72 ÷ 8 = 9
9 × 9 = 81		81 ÷ 9 = 9	
10 × 9 = 90	9 × 10 = 90	90 ÷ 9 = 10	90 ÷ 10 = 9
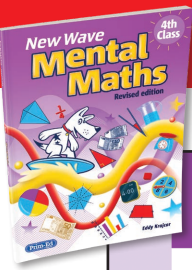
Problem-solving

Monday

Make the numbers across and down total 15.

1. Use 7, 5, 8, and 3.

2. Use 4, 9, 6, and 5.

> Separate 'Problem-solving' column to expand on mathematical understanding while assessing critical thinking skills across all mathematical strands.

Tuesday

Circle the correct signs.

1. 9 × 7kg   <   =   >   8 × 8kg
2. 10 × 4kg   <   =   >   5 × 8kg

Wednesday

Complete the patterns.

1. ▲ ● ■ ■ ▲ ● ■ ■ ▲ ○ □ □

2. 890, 910, 930, 950, _____, 990

Thursday

APPS ON DEVICES   ■ =2   ∟ =1

| Lee | ■ ■ ■ ■ ■ ■ |
| Ava | ■ ■ ■ ■ ∟ |

1. Lee has _____ more apps than Ava.

2. What is the sum of the apps?

   _____

Friday Review

1. **5** , **20** , **80** , _____ , **1280**

   Rule: × _____

2. 3, 6, 12, 24, _____, 96

   Rule: × _____

3. Which is the chance of a piano being found within a school?

   (a) probable ☐

   (b) improbable ☐

4. Andy recorded 5 spins.

   57, 69, 55, 54, 69

   (a) Order the numbers.

   _____
   _____

   (b) Find the mode.

   _____

5. €50 − €9.50

   = € _____

6. What is the perimeter of a fence line that is 45m by 35m?

   _____m

7. 104 − 9 = _____

8. 39 + 7 = _____

9. 10 − 0.7 = _____

10. 40 + 90 = _____

11. $\frac{1}{8} + \frac{1}{8}$ = _____

12. Colour the fractions and symbol to match.

    > = <

    $\frac{1}{4}$ $\frac{2}{8}$
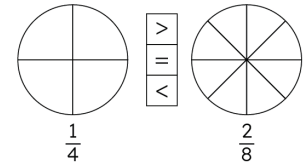
13. Write **7234** in expanded form.

    _____ + _____

    + _____

    + _____

14. Is this a net of a cube?

    _____

15. Which type of triangle is this?

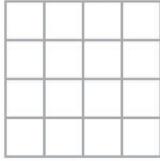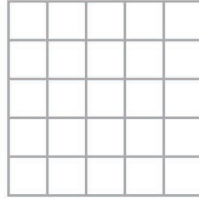   (a) isosceles ☐

    (b) equilateral ☐

    (c) scalene ☐

    7cm   3cm
    11cm
    (Not to scale.)

New Wave Mental Maths

10
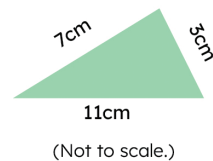
🎤 Maths Talk

Challenge

4 × 4 grid   5 × 5 grid

1. Working with a partner, can you colour 5 ⬚ shapes in the 4 × 4 grid, and have one blank square left?

Challenge: Working with a partner, can you colour 8 ⬚ shapes in the 5 × 5 grid, and have 1 blank square left in the middle?

Share, compare, and discuss your work with others.

Working out space

📖 Vocabulary

1. (a) Round **292** to the nearest hundred.

   _____

   (b) Round **292** to the nearest ten.

   _____

2. (a) Round **475** to the nearest hundred.

   _____

   (b) Round **443** to _____

   _____

New 'Vocabulary' column to assess pupil understanding of mathematical terminology.

Word Cloud

Add key words and phrases from Week 20.

The weekly 'Word Cloud' supports both individual and group learning of new terms and concepts.

Week 25

Monday

1. Write the numeral. _____
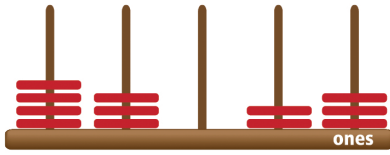
2. Angle A = _____°
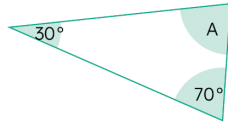
3. $\frac{3}{4}$ of 12 = _____

4. 99,998 + 7 = _____

5. 6 × 0.7 = _____

6. 35,505 – 9 = _____

7. 1% = 0._____

8. 3)$\overline{67.2}$ = _____
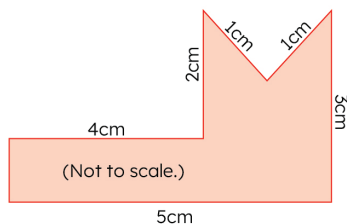
9. Simplify $\frac{9}{12}$. _____

10. How many lines of symmetry? _____

11. $\frac{7}{100}$ = 0._____

12. Perimeter = _____cm

(Not to scale.)

13. This book was €10, now it costs €_____.
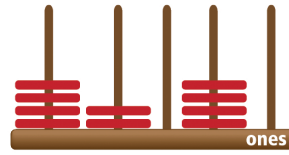
14. What 2-D shape would you see in the cross-section? _____

15. 17 × 25 × 4 = _____

Tuesday

1. Write the numeral. _____

2. 64 ÷ _____ = 8

3. Luke earns €125 per day. How much does Luke earn in 5 days?

   €_____

4. Round 9384 (nearest thousand).

   _____

5. 100 – 25 – 25 – 25 = _____

6. Diameter is 6cm, so the radius is _____cm.

7. $\frac{15}{100}$ = 0._____

8. Write in descending order.

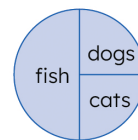   **0.15   15   1.05   1.5**

   _____, _____, _____, _____

9. The place value of the 8 in 24.85 is:

   (a) tenths. ☐   (b) hundredths. ☐

10. 50% of _____ = 9

11. $\frac{2}{3}$ of 9 = _____

The pie chart shows pets owned by 5th Class pupils.

12. 5 pupils own dogs. How many own cats?

    _____

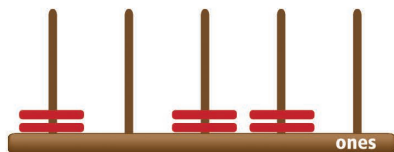13. How many own fish? _____

14. How many own dogs and fish? _____

15. How many pets altogether? _____

Wednesday

1. The value of the abacus is _____.
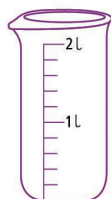
2. Simplify $\frac{4}{8}$. _____

3. 99,999 + 5 = _____

4. 50% of _____ = 50

5. What is the diameter of a circle, if the radius is 3.5cm? _____ cm

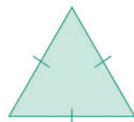6. $\frac{6}{20}$ = $\frac{\square}{40}$

7. 3% = 0._____

8. Colour 1800ml.

9. 10,000 – 350 – 450 = _____

10. $6\overline{)70.2}$ = _____

11. $\frac{12}{100}$ = 0._____

12. Which type of triangle is this?

    (a) isosceles ☐   (c) equilateral ☐

    (b) scalene ☐

13. (8 × 5) + 8 = _____
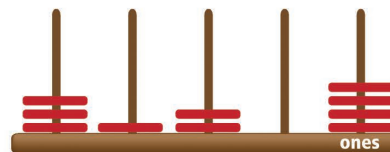
14. The book was €80, now it costs

    €_____.

15. Round 338,960 (nearest thousand).

    _____

Thursday

1. The value of the abacus is _____.

2. Time? (24-hour) _____

    12.10 (pm)

3. How many degrees is this angle likely to be?

    (a) 90° ☐   (c) 135° ☐

    (b) 18° ☐   (d) 45° ☐

4. $\frac{50}{100}$ = _____ %

5. 99,997 + 9 = _____

6. $\frac{1}{2}$ + $\frac{4}{12}$ = _____

7. Round 9035 to the nearest 1000.

    _____

8. $\frac{1}{2}$ < $\frac{1}{5}$ True ☐   False ☐

9. 80 ÷ _____ = 10

10. Write the numeral four hundred and forty thousand and four.

    _____

11. Parallelogram = _____ lines of symmetry

12. 12.93 + 25.24 = _____

13. 12^2 = _____

14. Diameter is 8cm, so the radius is

    _____ cm.

15. 50% of _____ = 7
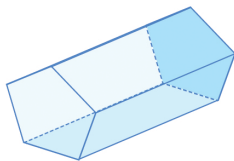
Wednesday

1. A pentagonal prism has

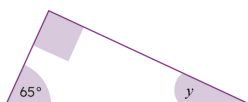   (a) ____ faces.

    (b) ____ edges.

    (c) ____ vertices.

2. $0.6 \div 0.2 = \frac{6}{10} \times \frac{10}{2} = \frac{60}{20} =$ _____

3. 4cm = 0._____m

4. Double 0.95. _____

5. $y =$ _____°

6 $\sqrt{25} =$ ____

7. $\frac{3}{5}$ℓ + _____ml = 1ℓ

8. 0.2, 0.6, 1, 1.4, _____

9. Circle the letter that has no line of symmetry.

    E   B   N   Y

10. $40\% = \frac{4}{10} = 0.$_____

11. A computer costs €800 plus 20% VAT. What is the total price?

    €_____

12. 4.4% = 0._____

13. $100 - e = 60$, so $e =$ _____

14. Write the fractions from smallest to largest.

    $\frac{6}{8}$ $\frac{1}{8}$ $\frac{5}{10}$ $\frac{1}{4}$

    _____, _____, _____, _____
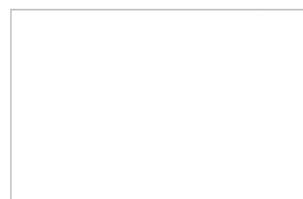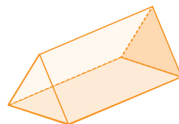
15. How many edges has a tetrahedron?

    _____

Thursday

1. Draw a net of a triangular prism.

2. $0.9 \div 0.3 = \frac{9}{10} \times \frac{10}{3} = \frac{90}{30} =$ _____

3. An obtuse angle is between _____°

    and _____°.

4. A car is travelling at 30km per hour. How long will it take to travel 5km?

    _____ minutes

5. 1.35kg = _____g

6. The total cost of 7 oranges is €1.54. What is the average cost of one orange?

    _____c

7. $80\% = \frac{4}{5} = 0.$_____

8. $10\frac{4}{10} - \frac{6}{10} =$ _____

9. Double 0.55. _____

10. $y =$ _____°
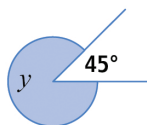
11. What number is halfway between -8 and +4?

    _____

12. 1000 × 0.007 = _____

13. Round 10.056 to one decimal place. _____

14. Halve $12\frac{1}{2}$. _____

15. How many vertices has a cube? _____

New Wave **Mental Maths**

🎙 Maths Talk

Discuss with a partner the best way to plot points on the four quadrants graph.

y axis

```
   2              3              1
                  2
                  1
  ─3  ─2  ─1          1    2    3        x axis
                 ─1
   3             ─2             4
                 ─3
```
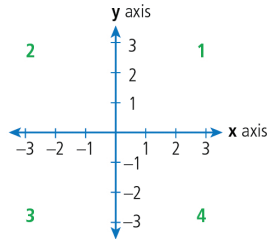
1. Complete the table. Include an example by plotting a point in each quadrant.

Quadrant	x (horizontal)	y (vertical)	Example
1	positive		
2			
3	negative		
4			

2. (a) Plot these coordinates.

   A = (3,3) B = (-3,3) C = (-3,-3) D = (3,-3)

   (b) Draw lines to join the coordinates. What shape was created?

   _____

3. (a) Plot these coordinates.

   P = (0,3)   Q = (-2,-2)   R = (2,-2)

   (b) Draw lines to join the coordinates. What type of triangle was made?

   _____

Share and compare your work with others.

Working out space

> New 'Maths Talk' column with extended problems with both closed- and open-ended questions to facilitate opportunities for group or class discussions.

📖 Vocabulary

1. **Look back at Week 29's 'Vocabulary' questions.** Match the prime factors below with each number from the set.

   (a) $3 × 3 × 3 × 3 =$ _____

   (b) $3 × 3 × 5 =$ _____

   (c) $3 × 17 =$ _____

   (d) $3 × 5 =$ _____

   (e) $2 × 3 × 5 =$ _____

   (f) $2 × 2 × 2 × 3 =$ _____

   (g) $2 × 2 × 2 × 3 × 3 =$ _____

   (h) $3 × 7 =$ _____

Word Cloud

Add key words and phrases from Week 30.

New Wave **Mental Maths**

New Wave Mental Maths

With over 20 years of research and continuous development, our best-selling *New Wave Mental Maths* series is still the best mathematics practice resource for the modern classroom. Visually rich and engaging, *New Wave Mental Maths* provides daily mathematics practice to increase pupils' fluency and automaticity in all three maths strands. Have a closer look and find out how they can make a difference in your school today.

KEY INFO

⭐ Seven-book series

⭐ Suitable for Senior Infants to 6th Class

⭐ 36-week mental maths programme in each book
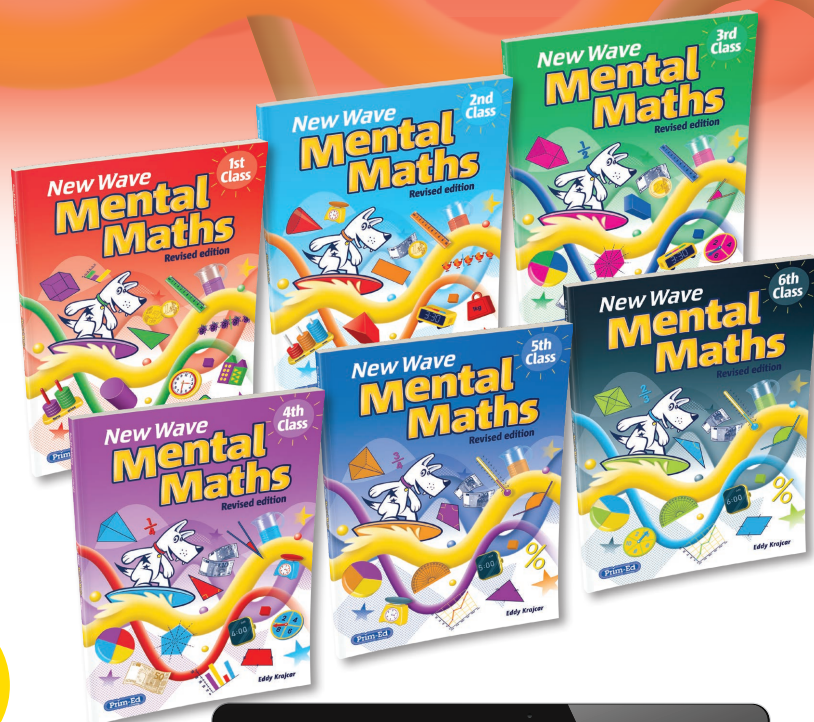
Level	Book code	Book ISBN
New Wave Mental Maths 1st Class	8602IR	978-1-80087-428-2
New Wave Mental Maths 2nd Class	8603IR	978-1-80087-429-9
New Wave Mental Maths 3rd Class	8604IR	978-1-80087-430-5
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Senior Infants (2012 edition)	1700	978-1-846547-79-9
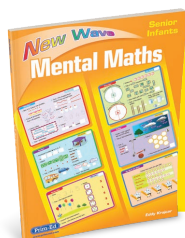
New Wave Mental Maths Senior Infants will be updated in 2026.

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The examples included may differ from the final edited versions in the product.

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