New Wave Mental Maths

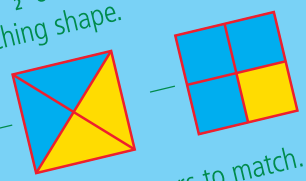
3rd Class

REVISED EDITION

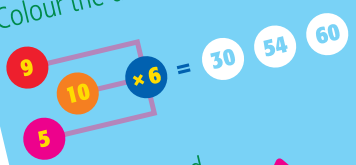
SAMPLE - NOT FOR SALE

THURSDAY

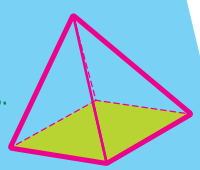
Write $\frac{1}{2}$ or $\frac{1}{4}$ beside the matching shape.



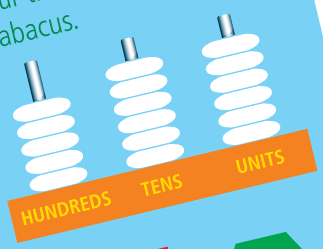
Colour the answers to match.

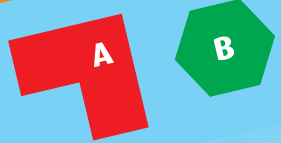


A square-based pyramid has _____ faces.



Colour the number 105 on the abacus.





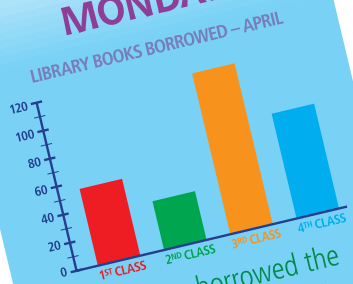
Match.

Regular hexagon _____

Irregular hexagon _____

PROBLEM-SOLVING

MONDAY



Which classes borrowed the least and the most books?

least = _____ most = _____

The difference between these two classes is _____ books.

TUESDAY

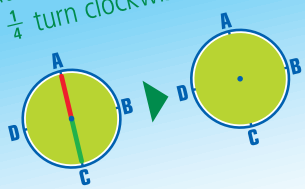
Complete the patterns.

WEDNESDAY

Use 6, 4, 3 and 1 to make 10 across and down.

THURSDAY

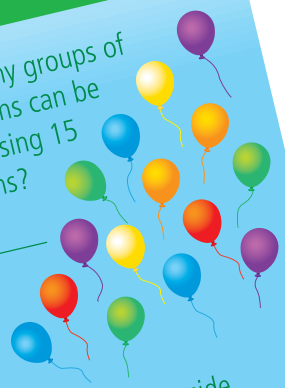
Rotate the arms of the straight line $\frac{1}{4}$ turn clockwise.



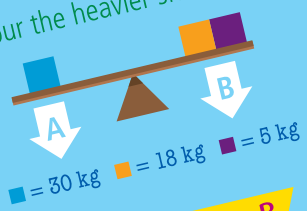
FRIDAY REVIEW

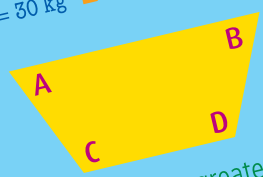
How many groups of 3 balloons can be made using 15 balloons?

_____



Colour the heavier side.

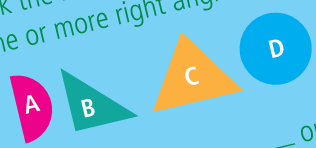




Which angles are greater than a right angle?

_____ and _____

Tick the 2-D shape that has one or more right angles.



The time is _____ or _____ past 6.

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Eddy Krajcar

FOREWORD

New Wave Mental Maths is a series of seven pupil workbooks, written to provide a comprehensive and structured daily mental maths programme for classes from Senior Infants to 6th Class. All strands and strand units of the mathematics curriculum are covered. The series has been updated and revised. Contemporary colour and appealing artwork have been added. Question types have been revised, reworded or rewritten. New to this edition is the inclusion of a separate problem-solving column in each week's unit of work, to enable teachers to focus on specific problem-solving skills and strategies.

New Wave Mental Maths is designed to:

- provide complete coverage of all mental maths-related strands and strand units of the mathematics curriculum;
- encourage and develop mental calculation concepts and skills;
- constantly revise the different strands and strand units;
- develop and reinforce problem-solving strategies;
- develop and maintain speed of recall; and
- introduce, practise and consolidate a range of mathematical vocabulary and language.

Assessment activities are provided for pupils to assess, monitor and record their own performance on a weekly basis. A separate ***Teachers Manual*** is available to accompany the ***New Wave Mental Maths*** series. This manual contains guidelines to help develop mental strategies; suggestions for classroom use; assessment material; list of concepts developed and answers for all the pupil workbooks.

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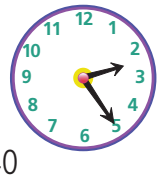
SAMPLE - NOT FOR SALE

WEDNESDAY

1. Time? _____.

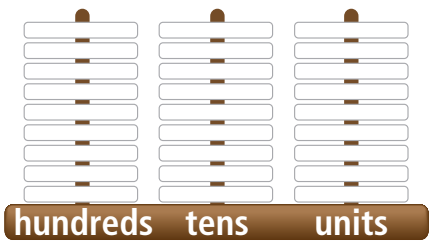
   or _____ past 2.



2. 100, _____, 120, 130, 140
3. 2 + 2 + 2 + 2 = _____
4. Write the numeral thirty-seven. _____
5. How many groups of 3 balloons can be made using 12 balloons?

   _____

6. 10 – 2 – 2 – 2 = _____
7. 10 + 6 = _____
8. Draw a semicircle between 2 triangles.
9. 10 – 8 = _____
10. 7 – 4 = _____
11. Look at Tuesday's table. The difference between the largest and smallest farms is _____ cows.
12. _____ hours = 1 day
13. $\frac{1}{2}$ of 20 = _____
14. 100 cm = _____ m
15. How many seasons in a year? _____
16. How many months in a year? _____
17. Colour the number 182 on the abacus.



18. Double 3. _____
19. 40 + 30 = _____
20. 200 + 70 + 5 = _____

THURSDAY

1. Time? _____.

   or _____ past 10.

2. ■■ + ■■ + ■■

   + ■■ + ■■

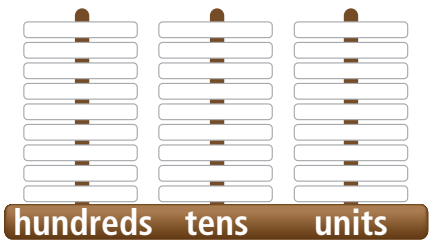
   = _____
3. 3, 6, 9, _____, 15, 18
4. Complete the pattern.

5. 12 – 2 – 2 – 2 = _____
6. How many groups of 2 balloons can be made using 14 balloons?

   _____

7. 3 + 3 = _____
8. 10 + 8 = _____
9. Tick which would better measure a garden.

   ☐ cm ☐ m
10. 0 + 4 = _____
11. 16 – 6 = _____
12. 700 + 60 + 3 = _____
13. Colour the number 105 on the abacus.

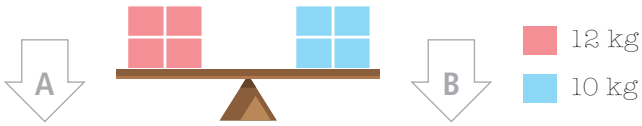


14. 4 + 3 = _____
15. _____ seconds = 1 minute
16. How many cents make €1? _____
17. $\frac{1}{2}$ of 18 = _____
18. Double 5. _____
19. 7 – 5 = _____
20. 60 + 20 = _____

SAMPLE - NOT FOR SALE

WEDNESDAY

1. $\frac{1}{2}$ hour = _____ minutes
2. 5 + 3 = _____
3. €10.00 + €4.50 = € _____
4. 4 + 4 + 4 + 4 + 4 = 5 × 4 = _____
5. Colour the heavier side.



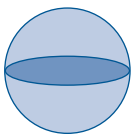
6. 16 – 4 – 4 = _____
7. Double 44. _____
8. Name this 2-D shape.

_____

9. 4 + 9 = _____
10. 12 + 8 = _____
11. 1, 3, 5, 7 and 9 are **odd** **even** numbers.
12. 30, 60, 90

    Rule: add _____
13. You need _____ to make €1.
14. Write the numeral three hundred and twenty-five. _____
15. Vertical or horizontal?

    _____
16. 12, 15, _____, 21, 24, 27
17. Name this 3-D shape.

    sp _____ e
18. How many blocks to fill the gaps?

    _____
19. 39 – 10 = _____
20. 700 – 200 = _____

THURSDAY

1. $\frac{3}{4}$ hour = _____ minutes
2. Round 42 to the nearest ten. _____
3. 12 – 8 = _____
4. Write the numeral one hundred and ten. _____
5. Share 16 bananas equally among 4 monkeys.

   _____ bananas each
6. €1.00 – 70c = _____ c
7. 4 + 4 + 4 + 4 + 4 + 4 = 6 × 4 = _____
8. €10.00 – €5.50 = € _____
9. 6 + 4 = _____
10. 4, 8, _____, 16, 20
11. 300 + 90 + 4 = _____
12. 6 + 8 = _____
13. Draw a circle between 2 semicircles.

    ☐
14. The 21st of July is in what season?

    _____
15. In 389, what is the value of the 8?

    ☐ 800 ☐ 80 ☐ 8
16. 1 m = 50 cm + _____ cm
17. 4, 7, 10, 13

    Rule: add _____
18. Write the correct letter.

    Regular hexagon _____

    Irregular hexagon _____

19. Is a square a 2-D shape?

    _____
20. 20 – 4 – 4 = _____

SAMPLE - NOT FOR SALE

PROBLEM-SOLVING

Monday

1. Eva has 10 apps on her device. Anna has 4 fewer than Eva.

   How many apps does Anna have?

   _____

2. The total of all their apps is _____.

Tuesday

1. In 1 hour, 12 pizzas are made. In half an hour, there would be _____ pizzas made.
2. In a quarter of an hour, there would be _____ pizzas made.

Wednesday

1. A chef cut 3 pizzas into halves to be shared equally among 3 customers.

   How many halves will each customer get?

   _____

2. A chef cut 3 pizzas into quarters to be shared equally among 4 customers.

   How many quarters will each customer get?

   _____

Thursday

1. James has 3 coins in one hand and 4 coins in the other hand.

   How much has he in total?

   € _____

2. James bought a sweet and now he has 30c left.

   How much did the sweet cost?

   _____ c

FRIDAY REVIEW

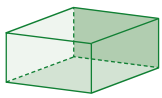
1. $\frac{1}{4}$ hour = _____ minutes
2. 24, 27, 30, _____, 36
3. 4 + 4 + 4 + 4

   = _____
4. Write the numeral two hundred and two.

   _____
5. St Patrick's Day is in what season?

   _____
6. Round 86 to the nearest ten.

   _____
7. 4, 8, _____, 16, 20
8. Tick which you would use to measure a pencil.

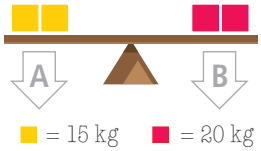
   ☐ cm ☐ m
9. Name this 3-D shape. 

   c ___ ___ oi ___
10. €5.00 – €2.50 =

    € _____
11. Share 16 balloons equally among 4 people. How many each?

    _____ balloons each
12. 200 + 700 = _____
13. How many blocks are needed to fill the gaps?

    _____ blocks
14. 7 + 8 = _____
15. Colour the heavier side.

16. 11, 13, 15, 17

    Rule: add _____
17.

    How long?

    _____ cm
18. 20 cm + _____ cm = 1 m
19.

    Vertical or horizontal?

    _____
20. 16 – 8 = _____

21. Write the correct letter.

    Regular hexagon _____

    Irregular hexagon _____
22. 3, 6, 9, 12, 15, _____
23. 20 – 4 – 4 = _____
24. Buy 4 books at €7.00 each.

    Cost = € _____
25. 13 – 5 = _____

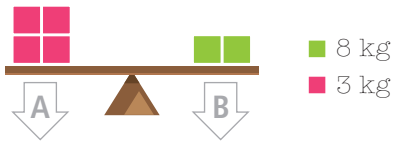
SAMPLE - NOT FOR SALE

MONDAY

1. 1 hour = _____ minutes
2. _____ + 7 = 20
3. €5.00 + € _____ = €9.00
4. Share 12 sweets equally among 4 boys.

   _____ sweets each
5. Clockwise or anticlockwise?
6. ■■ + ■■ + ■■ = _____
7. Round 94 to the nearest ten. _____
8. Tick the month with more days.

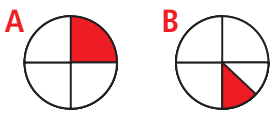
   ☐ September ☐ March
9. Colour the heavier side.



10. 10, 20, _____, 40, 50
11. Share €15.00 equally among 3 children.

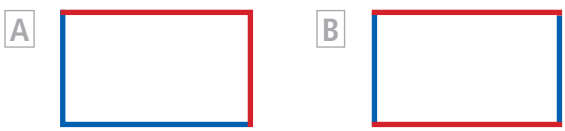
    € _____ each
12. 60, 55, 50, 45, _____
13. Would you buy flour by the kilogram (kg) or the kilometre (km)?

    _____
14. Which circle is shaded as $\frac{1}{4}$? _____



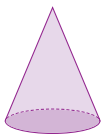
15. 21, 23, 25, 27

    Rule: add _____
16. 17 – 9 = _____
17. 12 – 6 = _____
18. Tick which red lines are parallel.



19. Name this 3-D shape.

    _____



20. 10 is $\frac{1}{2}$ of _____.

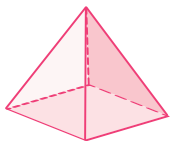
TUESDAY

1. $\frac{1}{2}$ hour = _____ minutes
2. Share 40 flowers equally among 10 vases.

   How many in each vase? _____
3. 6 + _____ = 9
4. Which number is nearer to 200?

   ☐ 198 ☐ 203
5. 3 + 3 + 3 + 3 = _____
6. 16 wheels.

   How many cars? _____
7. _____ + 9 = 100



8. Name this 3-D shape.

   s _____ – _____

   p _____
9. 1 kg = _____ g
10. 4, 8, _____, 16, 20
11. Measure this line.

    _____ cm
12.
    ```
      4 1
    + 1 3
    ------
    ------
    ```
13. 8 + 9 = _____
14. 10 – 3 = _____
15. Draw a vertical line.
16. Write the numeral two hundred and thirty-two. _____
17. 300 + 5 + 60 = _____
18. 3, 6, 9, 12, _____
19. 9, 7, 5, 3, 1

    Rule: subtract _____
20. 9 + 5 = _____

SAMPLE - NOT FOR SALE

Week 6

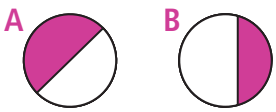
WEDNESDAY

1. $\frac{1}{4}$ hour = _____ minutes
2. 4 + 4 + 4 = _____
3. 333 = 300 + _____ + 3
4. 2, 4, 6, _____, 10, 12
5. Share 12 buns equally between 2 girls.

   _____ buns each
6. 110, 105, _____, 95, 90, 85
7. €5.00 + €1.50 = € _____
8. 500 + 200 = _____
9. Share 25c equally among 5 children.

   _____ c each
10. 16 – 4 – 4 = _____
11. 1, 11, 21 and 31 are **odd** **even** numbers.
12. 24 wheels.

    How many cars? _____
13. 2 + _____ = 100
14. Which shape is shaded as $\frac{1}{2}$? _____



15. **Clockwise** or **anticlockwise**?

16. 10, 8, 6, 4, 2

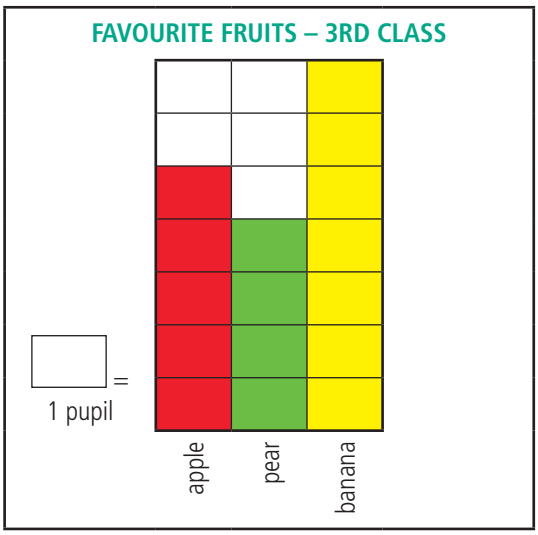
    Rule: subtract _____
17. 15 is $\frac{1}{2}$ of _____.
18. In 258, what is the value of the 5?

    ☐ 500 ☐ 50 ☐ 5
19. Which angles are greater than a right angle?

    _____ and _____
20. 11, 9, 7, 5, _____

THURSDAY

1. $\frac{3}{4}$ hour = _____ minutes
2. 15 – 9 = _____
3. €10.00 – €4.50 = € _____
4. 30, 50, 70, 90, _____
5. 10 + _____ = 14



6. How many children were asked? _____
7. 5 + 5 + 5 + 5 = 4 × 5 = _____
8. 3, 6, 9, _____, 15
9. 32 wheels.

   How many cars? _____
10. 2, 12, 22 and 32 are **odd** **even** numbers.
11. €1.00 – 90c = _____ c
12. Round 101 to the nearest ten. _____
13. €3.00 + €2.40 = _____ c
14. After autumn comes _____.
15. In 209, what is the value of the 2?

    ☐ 200 ☐ 20 ☐ 2
16. 100 + 70 + 5 = _____
17. 20, 15, 10, 5 Rule: subtract _____
18. 25 – 5 – 5 – 5 = _____
19. 10 + 10 + 10 = 3 × 10 = _____
20. 25 is $\frac{1}{2}$ of _____.

SAMPLE - NOT FOR SALE

PROBLEM-SOLVING

Monday

1. 3 boys have 6 pencils each.

   How many pencils in total? _____

2. 6 girls have 3 crayons each.

   How many crayons in total? _____

Tuesday

1. Angus downloaded 15 apps over the weekend. He now has 35 apps.

   How many apps did he have on Friday?

   _____

2. Kate downloaded 25 apps over the weekend. She now has 32 apps.

   How many apps did she have on Friday?

   _____

Wednesday

1. Bill brushes his teeth twice a day.

   How many times in a week? _____

2. Lucy has 5 coins in one hand and the same amount in the other hand.

   She has a total of € _____.

Thursday

1. A garden tub has 4 strawberry plants, each with 6 strawberries.

   How many strawberries?

   _____

2. Another tub has 6 strawberry plants, each with 4 strawberries.

   How many strawberries?

   _____

FRIDAY REVIEW

1. $\frac{3}{4}$ hour

   = _____ minutes

2. 15 + 6 = _____

3. Which number is nearer to 200?

   ☐ 206 ☐ 195

4. 16 – 4 – 4 = _____

5. Share equally among 4 children.

   _____ c each.

6.
   $$\begin{array}{r} 52 \\ +\ 34 \\ \hline \end{array}$$

   _____

7. In 423, what is the value of the 4?

   ☐ 400
   ☐ 40
   ☐ 4

8. Trace over 2 parallel lines.

9. 12, 9, 6, 3

   Rule: subtract _____

10. 90, _____, 130, 150, 170

11. 20 wheels. How many cars?

    _____

12. Halve 24.

    _____

13. €6.00 + €2.50 =

    € _____

14. 5, 8, 11, _____

15. 4 × 3 =
    3 + 3 + 3 + 3 =

    _____

16. Share €30.00 equally among 3 people.

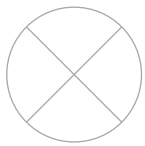
    € _____ each

17. 9 + 5 = _____

18. Round 75 to the nearest ten.

    _____

19. Colour $\frac{1}{4}$.

20.

    Clockwise or **anticlockwise**?

21. Would you buy sugar by the kilogram (kg) or the kilometre (km)?

    _____

22. Double 15. _____

23.

    Which angles are greater than a right angle?

    _____ and _____

24. After summer comes

    _____.

25. 100 – 4 = _____

SAMPLE - NOT FOR SALE