## Maths Activity Booklet



## Number and Place Value

1. Continue these number sequences:

9, 18, 27, 36, 45, $\qquad$ , $\qquad$ , $\qquad$ , $\qquad$ , $\qquad$ , $\qquad$ , $\qquad$ , 775, 750, 725, 700, $\qquad$ , $\qquad$ , $\qquad$ , $\qquad$ , $\qquad$ , $\qquad$ , $\qquad$ ,
$5,4,3,2$, $\qquad$ , $\qquad$ , $\qquad$ , $\qquad$ , $\qquad$ , $\qquad$ , $\qquad$ ,
2. Find 100 less than these numbers:

3912 $\qquad$
9201 $\qquad$
1083 $\qquad$
3. Find 1000 less than these numbers:

59003 $\qquad$
17351 $\qquad$
20882 $\qquad$
4. What is the value of the underlined digit in each number?

1846 $\qquad$
$\underline{2} 004$ $\qquad$
1589 $\qquad$
5. Put these numbers in order from smallest to largest.
10111
11011
10011
11110
11101
Smallest
Largest

$\square$

6. Compare these numbers using $<,>$ or $=$.
$454 \square 544$

2 tens 4 ones $\square 24$ ones

## Representing Number

1. What number is shown below? $\qquad$

2. Complete the table, showing the numbers in numerals and words.

| 2109 | One thousand, two hundred and <br> ninety-three. |
| :---: | :---: |
| 29431 | Seventy-five thousand and <br> ninety-eight. |
|  |  |

3. Use the information in the table to work out the value of these Roman numerals.

LXXII = $\qquad$ $X I V=$ $\qquad$ CCLIX= $\qquad$

| Roman | Numeral |
| :---: | :---: |
| I | 1 |
| V | 5 |
| X | 10 |
| L | 50 |
| C | 100 |

4. a) What is the largest number that can be made from these digit cards? $\qquad$
2
b) What is the smallest number that can be made from these digit cards? $\qquad$
5
9

## Addition and Subtraction

1. Complete these calculations mentally:
$421+50=$ $\qquad$
$376+200=$ $\qquad$

250-99 = $\qquad$
2. Complete these calculations:

|  | 1 | 3 | 5 | 7 |  | 3 | 5 | 9 |  | 2 |  | 7 | 9 | 8 |  | 5 |  | 5 | 3 | 1 | 9 |  |
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| + | 2 | 6 | 4 | 1 | + | 4 | 2 | 3 |  | 8 | - | 1 | 3 | 4 |  | 2 | - | 3 | 2 | 6 | 7 |  |
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3. Complete these calculations:
$3410+$ $\qquad$ $=5655$

6720 - $\qquad$ $=5220$
4. Use appropriate calculations to solve these problems.
a) At a cinema, there is room for 750 people in a screen. If the cinema sells 641 tickets for a screen, how many are left? $\qquad$

b) In one day, 2345 people visit the cinema. 1032 of them go and see an action film and the others go and see a comedy. How many people went to see the comedy? $\qquad$


## Multiplication and Division

1. Fill in the missing numbers in the multiplication square.

| $\mathbf{x}$ | $\mathbf{1}$ | $\mathbf{2}$ | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ | $\mathbf{8}$ | $\mathbf{9}$ | $\mathbf{1 0}$ | $\mathbf{1 1}$ | $\mathbf{1 2}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{1}$ | 1 | 2 |  | 4 |  | 6 |  | 8 | 9 |  | 11 | 12 |
| $\mathbf{2}$ | 2 |  | 6 | 8 |  | 12 | 14 |  | 18 | 20 |  | 24 |
| $\mathbf{3}$ | 3 |  |  | 12 | 15 |  | 21 | 24 |  | 30 | 33 |  |
| $\mathbf{4}$ |  | 8 | 12 |  | 20 | 24 |  | 32 | 36 |  | 44 | 48 |
| $\mathbf{5}$ | 5 | 10 |  | 20 | 25 |  | 35 | 40 |  | 50 | 55 |  |
| $\mathbf{6}$ | 6 |  | 18 | 24 | 30 | 36 |  |  | 54 | 60 |  | 72 |
| $\mathbf{7}$ |  | 14 | 21 |  |  | 42 | 49 | 56 |  | 70 | 77 |  |
| $\mathbf{8}$ | 8 | 16 |  | 32 | 40 |  | 56 | 64 | 72 |  | 88 | 96 |
| $\mathbf{9}$ |  | 18 | 27 |  | 45 | 54 | 63 |  | 81 | 90 | 99 | 108 |
| $\mathbf{1 0}$ | 10 |  | 30 | 40 |  | 60 | 70 | 80 | 90 | 100 |  | 120 |
| $\mathbf{1 1}$ |  | 22 | 33 |  | 55 | 66 |  | 88 |  |  | 121 |  |
| $\mathbf{1 2}$ | 12 | 24 |  | 48 | 60 |  | 84 |  | 108 | 120 |  | 144 |

2. Explain the pattern of the 9 times table.
3. Complete these calculations:
$250 \times 4=$ $\qquad$
$555 \times 100=$ $\qquad$
$2540 \times 0=$ $\qquad$
4. Use your knowledge of multiplication and division methods to solve these problems.
a) A box of glue sticks contains 128 glue sticks. There are 4 classes in the school. How many glue sticks does each class get?
b) To make a model, each child needs 8 lolly sticks. If lolly sticks come in packs of 30, how many packs would be needed for 28 children to make a model?
5. Use formal methods to complete these calculations.
a) $45 \times 6=$
b) $333 \div 9=$

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6. If we know that $12 \times 13=156$, what other calculations do we know? Write them below.
$\qquad$
7. Fill in the missing numbers.
$\square \times 12=121$
$125 \div \square=5$
$8 \times \square=120$
$\square \div 7=50$

## Fractions

1. Continue the number sequences.

2. Find $\frac{6}{8}$ of these bananas.

3. a) What fraction of the shape is shaded? $\qquad$

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

b) Write 2 equivalent fractions to the amount shaded.
4. Use the fraction wall to help you answer these questions.

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| $\frac{1}{3}$ |  |  |  |  |  |  |  | $\frac{1}{3}$ |  |  |  |  |  |  |  |  |  | $\frac{1}{3}$ |  |  |  |  |  |  |  |
| $\frac{1}{6}$ |  |  |  | $\frac{1}{6}$ |  |  |  | $\frac{1}{6}$ |  |  |  | $\frac{1}{6}$ |  |  |  |  |  | $\frac{1}{6}$ |  |  |  | $\frac{1}{6}$ |  |  |  |
| $\frac{1}{12}$ |  | $\frac{1}{12}$ |  | $\frac{1}{12}$ |  | $\frac{1}{12}$ |  | $\frac{1}{12}$ |  | $\frac{1}{12}$ |  | $\frac{1}{12}$ |  |  | $\frac{1}{12}$ |  |  | $\frac{1}{12}$ |  | $\frac{1}{12}$ |  | $\frac{1}{12}$ |  | $\frac{1}{12}$ |  |
| $\frac{1}{24}$ | $\frac{1}{24}$ | $\frac{1}{24}$ | $\frac{1}{24}$ | $\frac{1}{24}$ | $\frac{1}{24}$ | $\frac{1}{24}$ | $\frac{1}{24}$ | $\frac{1}{24}$ | $\frac{1}{24}$ | $\frac{1}{24}$ | $\frac{1}{24}$ |  | $\frac{1}{24}$ | $\frac{1}{24}$ | $\frac{1}{24}$ |  | $\frac{1}{4}$ | $\frac{1}{24}$ | $\frac{1}{24}$ | $\frac{1}{24}$ | $\frac{1}{24}$ | $\frac{1}{24}$ | 24 | $\frac{1}{24}$ | $\frac{1}{24}$ |

a) How many sixths are equivalent to $\frac{2}{3}$ ? $\qquad$
b) How many twelfths are equivalent to $\frac{6}{24}$ ? $\qquad$
c) How many twenty-fourths are equivalent to $\frac{5}{6}$ $\qquad$
d) Would you rather have $\frac{7}{12}$ or $\frac{15}{24}$ of a cake? Why? $\qquad$
5. Complete these calculations:

$$
\begin{array}{ll}
\frac{1}{10}+\frac{3}{10}= \\
\frac{3}{8}+\frac{4}{8}= \\
\frac{7}{9}-\frac{2}{9}= \\
\frac{4}{6}-\frac{1}{6}= \\
& =
\end{array}
$$

6. Put these fractions in order from smallest to largest.
$\frac{3}{6}$
$\frac{2}{3}$
$\frac{1}{10}$
$\frac{2}{8}$
$\frac{5}{6}$
Smallest
$\square$

Largest


## Fractions and Decimals

1. Match the decimal to its equivalent fraction.
$\frac{1}{2}$ 0.01
$\frac{1}{10}$
0.6
$\frac{3}{4}$
0.5
$\frac{6}{10}$
0.1
$\frac{1}{100}$
0.75
2. Complete the table. One has been done for you.

|  | $\div 10$ | $\div 100$ |
| :---: | :---: | :---: |
| 13 | 1.3 | 0.13 |
| 42 |  |  |
| 68 |  |  |
| 3 |  |  |

3. Round these decimals to the nearest whole number.
1.2
5.6
2.21 $\qquad$
3.5 $\qquad$
1.55 $\qquad$
4. Compare these decimals using $<,>$ or $=$.

$3.75 \square 3.775$

## Measurement

1. a) Measure this line using a ruler. Write its length in cm and in mm .
b) Use a ruler to draw a line that measures 53 mm .
2. Write the amount shown on each scale.

$\qquad$ kg

${ }^{\circ} \mathrm{C}$

$\qquad$ ml
3. Convert these units.
a) $1500 \mathrm{~g}=$ $\qquad$ kg
d) $12.5 \mathrm{~cm}=$ $\qquad$ mm
b) $2450 \mathrm{~g}=$ $\qquad$ kg
e) $1.2 \mathrm{~km}=$ $\qquad$ m
c) $1.75 \mathrm{~m}=$ $\qquad$ cm
f) $2300 \mathrm{ml}=$ $\qquad$ l
4. Anna says five 750 ml bottles will hold more than three 1 l bottles. Is she right? Explain how you know.
$\qquad$
$\qquad$
$\qquad$

## Area and Perimeter

1. Calculate the perimeter of this shape.


Perimeter $=$ $\qquad$ cm
2. What is the area of this shape?


Area $=$ $\qquad$ $\mathrm{cm}^{3}$
3. Which of these shapes has the largest area? Circle the shape below.


## Time

1. Write the time these clocks show.

2. Draw the hands to show the given time on each clock.


1:15 or quarter past 1


4:50 or ten to 5


7:45 or quarter to 8
3. A film lasts for 165 minutes. How long is the film in minutes and hours?
4. Complete the sentences.

There are $\qquad$ seconds in 1 minute.

There are $\qquad$ minutes in 1 hour.

There are $\qquad$ hours in 1 day.

There are $\qquad$ days in 1 week.

There are $\qquad$ days in 1 year.

There are $\qquad$ months in 1 year.
5. How many days are in June? $\qquad$

## Shape

1. Name these 2 D shapes.


2. Name these 3D shapes.

3. Draw the following shapes in the correct places on the Venn diagram.

- square
- right angled triangle
- pentagon
- parallelogram


4. Match the type of triangle to its definition.

## Equilateral

One angle is a right angle

Isosceles
All sides and angles are equal

Scalene
2 sides and angles are equal

Right-angled triangle
No sides or angles are equal

## Angles

1. Order these angles from smallest to largest.
A

B

C

D

2. Tick all the shapes that have obtuse angles.


## Symmetry

1. Draw a line of symmetry on these shapes.

2. Reflect the shapes in the mirror line.



## Position and Direction

1. Write the coordinates for the points marked on the grid.


A $\qquad$

B $\qquad$

C $\qquad$
2. Plot these coordinates on the grid. What shape is made?

$(0,2)$
$(1,4)$
$(4,2)$
$(5,4)$
3. Translate this triangle 2 squares to the right and 3 squares up. Label this new triangle $B$.

|  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
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|  | A |  |  |  |  |

4. Amy is walking north east. She turns quarter of a turn anticlockwise. What direction is she walking now?

5. Simon left his house and turned right. He made a right turn at the next junction and right at the junction after. Where is Simon?
$\qquad$


## Statistics

1. A class were asked to choose their favourite animals. These were the results:

| Animal | Tally |
| :---: | :---: |
| Cat |  |
| Dog | HT $\\|\\|$ |
| Panda |  |
|  | $\\|$ |
| Giraffe |  |


a) Use the information in the bar chart to complete the information in the table.
b) Add the information for 'Dog' to the bar chart.
c) Which was the most popular animal?
d) Which animal was half as popular as a dog?
e) How many children were asked in total?
2. A school measured the heights of all children. The results are shown in the graph below.

The Height of Children

a) Which height was the least common in the school?
b) How many children measured less than 1 m ?
c) 3 more children joined the school who measure between $110 \mathrm{~cm}-119 \mathrm{~cm}$. Add this information to the graph.
d) After these children joined, how many children were measured in total?

