## ftit KULJUM <br> matematika ghal kulhadd

Tasks for Year 3 and Year 4


## SEAL SQUARES

Complete each magic square with the numbers shown on each ball. The sum of each row, column and diagonal should match the number written on the seal touching the respective ball.

Note: In all magic squares each number cannot be used more than once.


## 2D SHAPE COLLAGE

On the grid, there is an outline of a square.
Fill in the square with different 2D shapes to form the bigger square without any gaps.

Use different colours to show the different 2D shapes.

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

## THE MATHSTIMATE COMPETITION

Lara, James and Daphne are taking part in the Mathstimate Competition.
They must estimate the height, length and mass of different objects.
The winner of the competition is the child with the largest number of correct answers.

## Challenge

Identify the winner of the game by circling the correct estimate in each question.


1. The height of $a$ bedroom door is...

2. The length of a new pencil is...

3. The width of your smallest finger is...

4. The mass of an apple is...

5. The capacity of a shampoo bottle is...

6. The mass of an 8 year old child is...


## HEIGHTS IN THE WILD

Look at the pictures of different wild animals.

The heights shown (not to scale) for the animals in the pictures is much smaller than the actual height in real life.

Work out the real height of each wild animal.


| Racoon | Tiger |
| :--- | :--- |
| This is $\frac{1}{4}$ of the real height. | This is $\frac{1}{4}$ of the real height. |
| 6 cm | 30 cm |

What is the real height? $\qquad$ .

What is the real height? $\qquad$ .


This is $\frac{1}{5}$ of the real height.

| 16 cm |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |

This is $\frac{1}{3}$ of the real height.

| 60 cm |  |  |
| :--- | :--- | :--- |

What is the real height? $\qquad$ .

What is the real height? $\qquad$ .


## RACING NUMBERS AGAINST TIME

## Challenge:

- Look carefully at the given numbers and write as many facts about each number related to concepts of time.
- Remember that the concept of time, is not just about
 reading the time off an analogue or a digital clock, but it includes the calendar and seasons.
- Ideally the game is played against a partner or more than 1 partner.
- Set a stopwatch to show 5 minutes and write as many correct statements/facts as you can within that time.
- A player earns 2 points for each correct statement/fact.
- The winner is the player with the most points.

| 4 | Z |
| :--- | :--- |
| 122 | 24 |
| 28 | 29 |
| 30 | 31 |
| 60 | 305 |

## SIXTY

## Let's investigate number 60

## Task 1

Facts about 60.
a. It is 'sixty' in words.
b. It is an even number.
c. It is between 59 and 61 .
d. In roman numerals it is $L X(L=50, X=10)$

Write some more facts about this number.
Use the correct mathematical vocabulary.

## Task 2

Which of these sequences will display the number 60?
Give a reason for your answer.
a. $2,4,6,8,10$...
b. $1,3,5,7,9$...
c. $95,90,85,80,75$...
d. $8,11,14,17,20 \ldots$

Create 5 sequences both in ascending and/or descending order which display the number 60.

Explain/describe the sequence in mathematical terms.

Note: Number sequences are sets of numbers that follow a pattern or a rule. Each number in a sequence is called a term.

Answers for all tasks in this booklet are available on https://primarymaths.skola.edu.mt/ftit-kuljum/ .

