

END OF PRIMARY BENCHMARK

2018

MATHEMATICS

WRITTEN PAPER

80 marks

1 hour 30 minutes

1. Work out.

a) $140 + 60 =$ _____ <input data-bbox="502 533 775 651" type="text"/>	b) $569 - 247 =$ _____ <input data-bbox="1129 533 1402 651" type="text"/>
c) $40 \times 40 =$ _____ <input data-bbox="502 1003 775 1122" type="text"/>	d) $312 \div 13 =$ _____ <input data-bbox="1129 1003 1402 1122" type="text"/>

(4 marks)

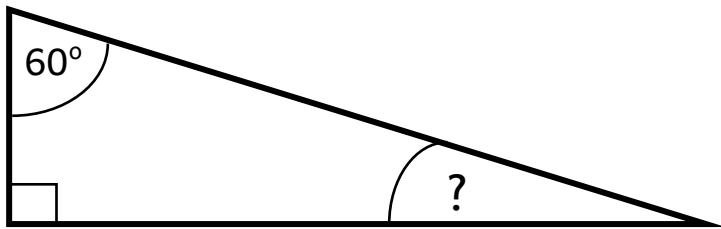
2.

I am a **4-digit number**.
Read the clues below to find out what number I am.

- The digit in the **units** place is the **second multiple of 3**.
- The digit **4** **appears once**.
- When **rounded to the nearest 100**, I become **9,400**.
- The digit in the **hundreds** place is **double the digit in the tens** place.

(4 marks)

3a) Look at the triangle below.



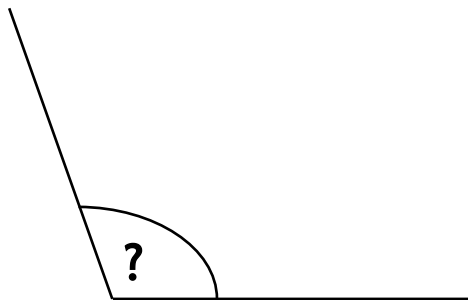
The triangle is not drawn to scale.

(i) The sum of all the angles in any triangle is

(ii) Work out the missing angle.

b) Use a protractor to:

(i) measure the angle below.



(ii) draw an angle of 45° .

(4 marks)

4. Write the missing digits.

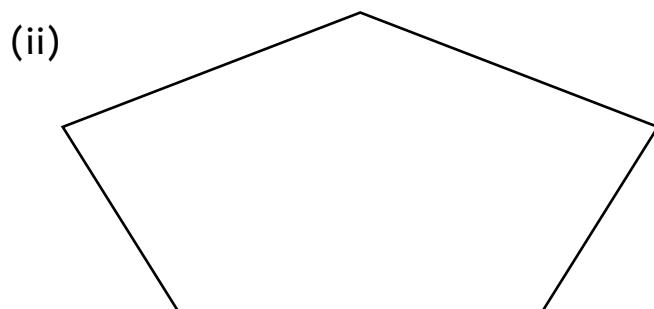
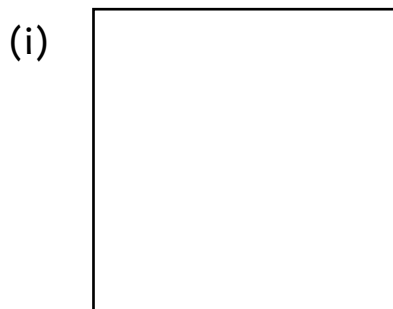
a) $3_58 + 342 = 4000$

b) $4_3 \times 9 = 3627$

c) $870_ \div 7 = _244$

(4 marks)

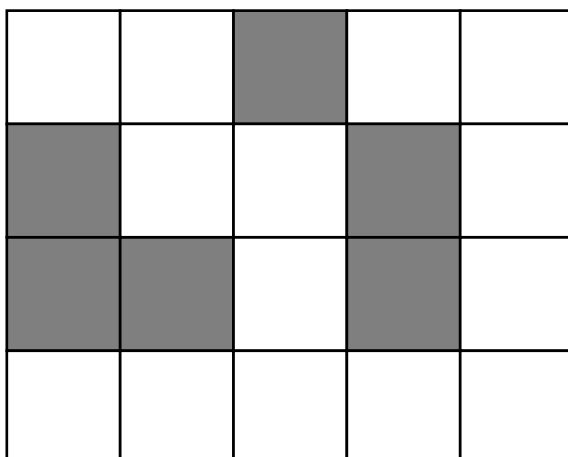
5a) Draw **all** the **lines of symmetry** of these shapes.
Use a ruler.



b) The figure below is made up of **squares**.

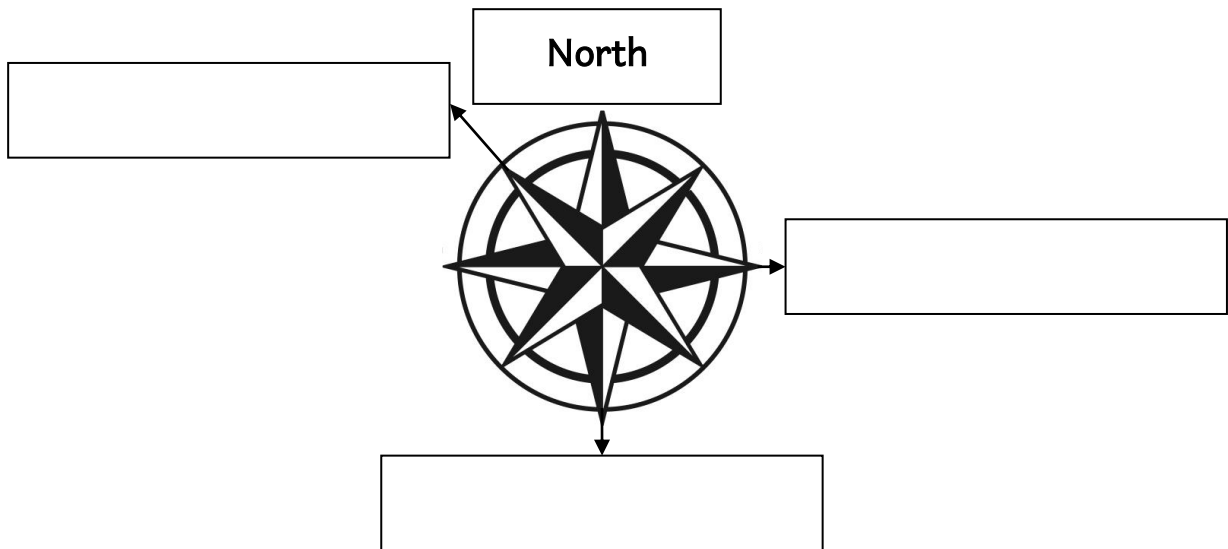
(i) **Shade two more squares** so that the figure has **1 line of symmetry**.

(ii) Then **draw the line of symmetry**.

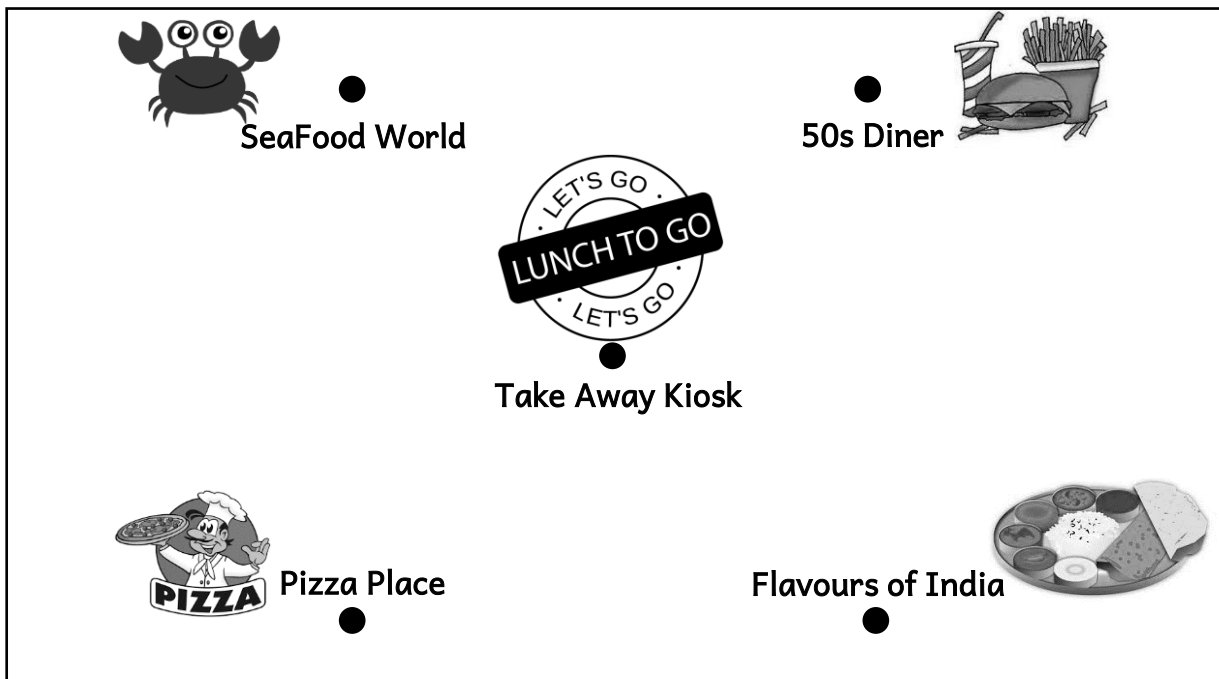


(5 marks)

6a) Fill in the missing compass points in the diagram below.



b) Below there is the plan of the restaurants' area in a Holiday Resort.



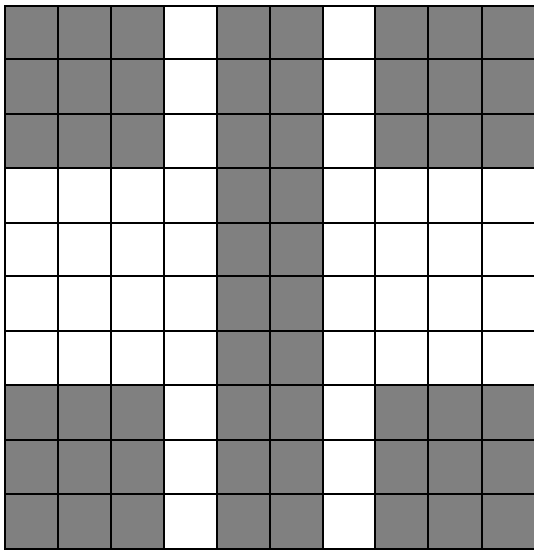
Fill in the blanks with the correct direction.

(i) Pizza Place is _____ of Flavours of India.

(ii) Take Away Kiosk is _____ of SeaFood World.

(5 marks)

7. Some squares in the grid below are shaded.



a) What **fraction** of the **whole grid** is shaded?
Write the fraction in its **simplest form**.

b) What **percentage** of the whole grid is **not shaded**?

%

c) Shade more squares so that $\frac{3}{4}$ of the grid is shaded.

(5 marks)

8. Look at the number sequences below.

Fill in the **missing numbers** in these sequences.

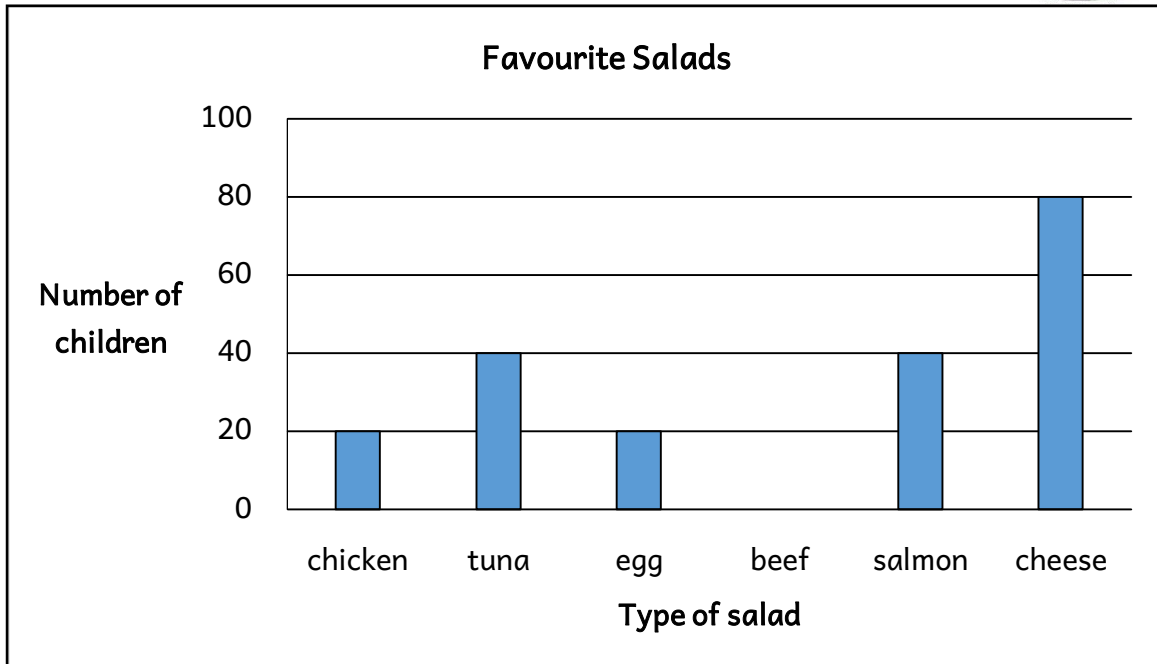
a) 1, 3, 6, 10, 15, 21, 28, , ,

b) 16, 25, 36, 49, , , 100

(5 marks)

9. The students in Sunshine School took part in a survey about which salads they like best.

The bar graph shows the results.



- a) How many students took part in the survey in **all**?

students

- b) Express the number of students who like **tuna salad** as a fraction of the **total number of students**.

$\frac{\quad}{\quad}$

- c) More than half of the students like **cheese salad** best.

Is this true or false? Tick (✓) the correct answer.

True

False

Explain your answer using working.

Show your working here.

(5 marks)

10. Here is a MAGIC SQUARE.

The sum of the numbers of each row, column and diagonal is equal to 50.

Fill in the missing numbers.

30	1	12	
		29	2
5	10	3	32
4			9

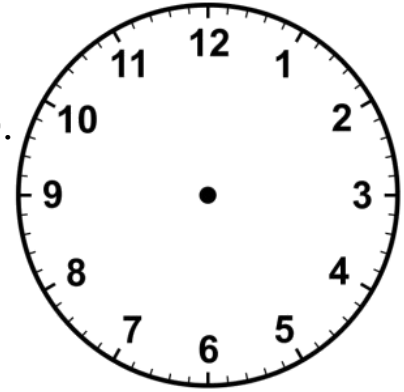
Show your
working here.

(5 marks)

11. Some students participate in a race.

a) The race starts at 15:30.

Draw the hands on the clock face to show 15:30.



b) These are the timings of 4 students.



Name of student	Timings
Jack	1 minute 50 seconds
Petra	2 minutes 5 seconds
Amy	1 minute 45 seconds
Manuel	2 minutes 10 seconds

(i) Tick (✓) the name of the fastest student.

Jack

Petra

Amy

Manuel

(ii) Work out the difference between Jack's and Manuel's timings.

Show your working here.

seconds

(5 marks)

12. The table below shows the number of passengers who travelled from Malta to Gozo between Thursday and Sunday of last week.

Thursday	Friday	Saturday	Sunday
9,034	12,516	11,923	13,459



- a) Work out the **total number of passengers** on these days.

Show your working here.

passengers

- b) For these 4 days, work out the **mean (average) number of passengers per day**.

Show your working here.

passengers

- c) On Monday, there were **fewer passengers** than on the other days.
The **mean from Thursday to Monday** was **10,788 passengers**.
Work out how many **passengers** travelled from Malta to Gozo on **Monday**.

Show your working here.

passengers

(5 marks)

13a) Diane has a fishbowl.

The **capacity** of the fishbowl is 7 litres.

Diane fills the fishbowl to the top using 500 *ml* bottles of water.



How many 500 *ml* bottles are needed to fill the fishbowl?

Tick (✓) the **best estimate**.

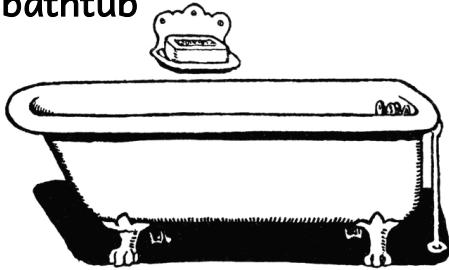
- | | | | |
|------------|--------------------------|------------|--------------------------|
| 5 bottles | <input type="checkbox"/> | 15 bottles | <input type="checkbox"/> |
| 50 bottles | <input type="checkbox"/> | 70 bottles | <input type="checkbox"/> |

b) Below there are four items that we find at home.

The unit to measure the **capacity** is missing.

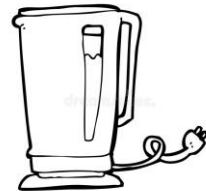
Write *l* or *ml* .

(i) a bathtub



90

(ii) a kettle



1500

(iii) a mug



0.25

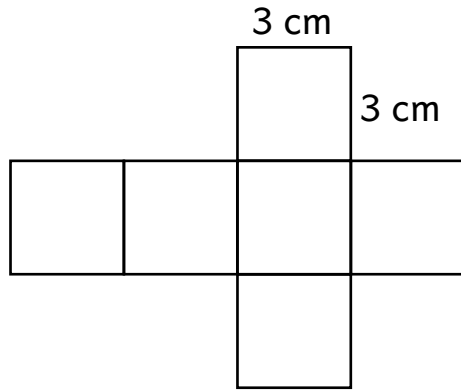
(iv) a spoon



15

(6 marks)

14a) Alan uses the net below to make a 3-d shape.
 The net is made up of **6 identical squares**.



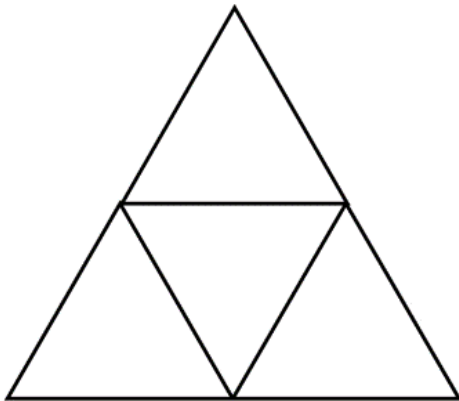
This net is not drawn to scale.

(i) Which **3-d shape** does Alan make?

(ii) What is the **area** of this net?

cm^2

b) Now, Alan has another net. It is made up of **4 identical triangles**.
 Each triangle is an **equilateral triangle** of side **5 cm**.



This net is not drawn to scale.

(i) What is the **perimeter** of this net?

cm

(ii) Which **shape** does this net make?

(6 marks)

15a) Tim has a tin box with **90 marbles** in it.
 Its **total mass** is **720 grams**.
 The mass of the empty tin box is **450 grams**.
Note: Each marble has the same mass.



(i) Work out the **mass** of **1 marble**.

Show your working here.

grams

(ii) Tim gives some marbles to Gianni.
 The **same tin box** now weighs **585 grams**.
 How many marbles are there in the tin box now?

Show your working here.

marbles

b) Gianni also has a tin box full of marbles. His box weighs **1.85 kg**.

1.85 kg is equal to

grams .

(6 marks)

16. Elaine and Maya own a restaurant.
They buy some new furniture for their restaurant.

- a) Elaine buys **10 shelves** at **€12.95** each.
How much do these **10 shelves** cost **altogether**?



Show your
working here.

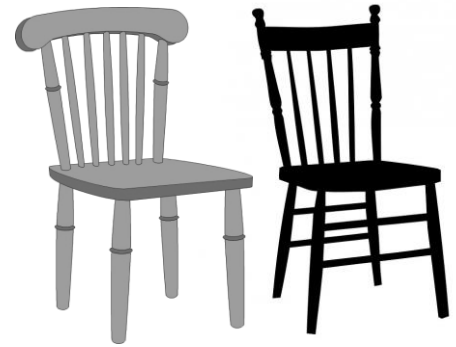
€

- b) Maya buys **60 chairs** for the restaurant.
Some chairs are **grey** and some are **black**.

Grey chairs cost **€20**.

Black chairs cost **€10**.

In **all** Maya spends **€720**.



How many **black chairs** does Maya buy?

Show your
working here.

black chairs

(6 marks)

END OF PAPER