



ST NICHOLAS COLLEGE
RABAT MIDDLE SCHOOL
HALF YEARLY EXAMINATIONS 2017

Level
5-6-7

YEAR 7 MATHEMATICS (Main Paper) TIME: 1 hr 30 mins

Question	1	2	3	4	5	6	7	8	9	10	11	12	Main	NC	Global Mark
Mark															

DO NOT WRITE ABOVE THIS LINE

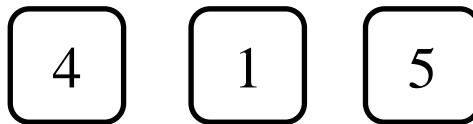
NAME: _____ INDEX NO. _____ CLASS: _____

INSTRUCTIONS TO CANDIDATES:

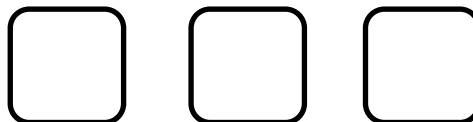
Read all the questions carefully before you start answering.

- Answer all questions.
- This paper carries 75 marks.
- Calculators and mathematical instruments are allowed but all necessary working must be shown.

1. Look at these cards:



a) Using each card **only once**, what is the **largest number** you can make?



b) Write your number in **words**.

c) Is your number **ODD** or **EVEN**?

Ans : _____

(4 marks)

2. Fill in the table with **YES** or **NO**:



	Is it a multiple of 5?	Is it a factor of 10?	Is it a prime number?	Is it a square number?
5	YES			
25		NO		

(6 marks)

3. A Snack Bar has the following menu:

						
Chips 85c	Hot Dog €1.25	Cheese Burger €1.50	Juice 50c	Water €1.00	Coffee 55c	Milkshake 80c

a) John and Paul order the following items. Calculate their bills.

<p>i) John</p>  <p>Bill = € _____</p>
<p>ii) Paul</p>  <p>Bill = € _____</p>

b) How much money do they spend **altogether**?

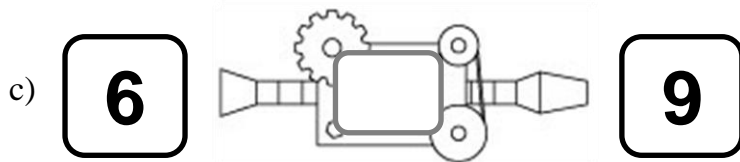
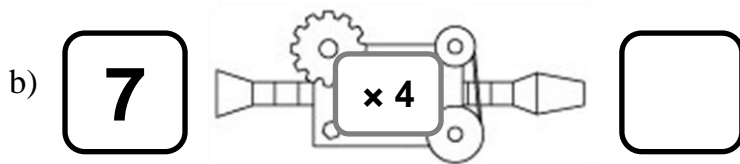
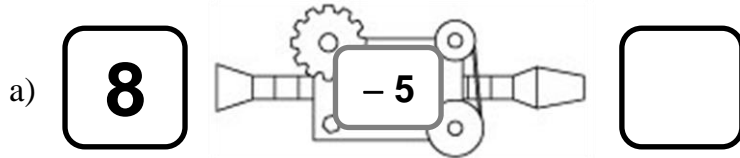
€ _____

c) John decides to pay **both bills** together. How much change does he get from **€10**?

€ _____

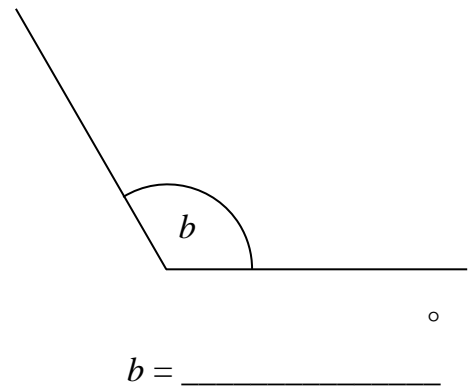
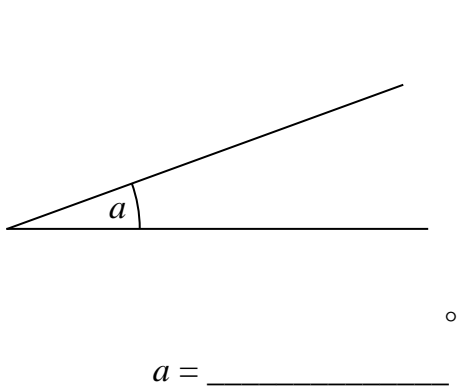
(10 marks)

4. Complete these number machines:



(3 marks)

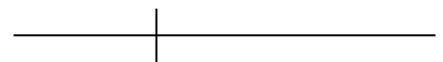
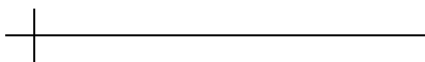
5. a) Use your protractor to measure the following angles.



b) Draw an angle of:

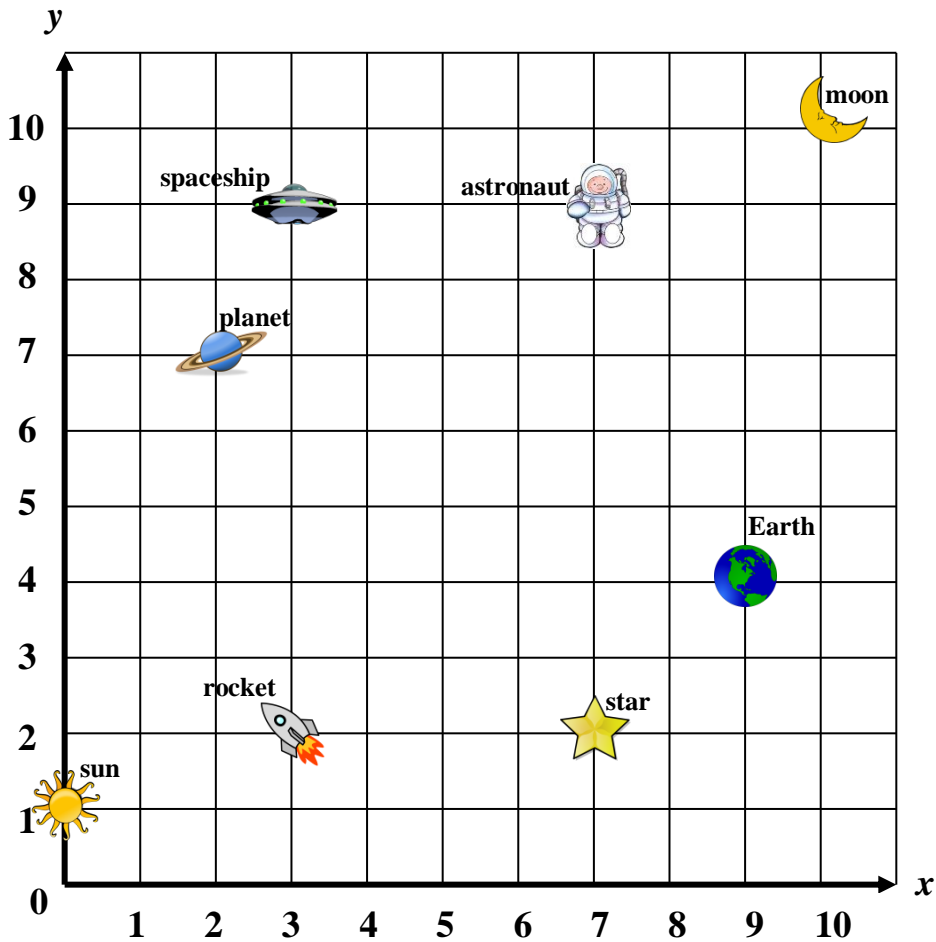
i) 65°

ii) 150°





(6 marks)

6.







a) Give the **co-ordinates** of each item.

(i)  (_____, _____)

(ii)  (_____, _____)

b) Write the **item** located at each of these co-ordinates.

(i) (7, 2) _____ (ii) (7, 9) _____

c) (i) Now **join** the rocket , the spaceship , the astronaut  and the star  in this order to form a shape.

(ii) Fill in: This **shape** is a _____.

d) **Underline** the correct answer:

The astronaut is due (North, South, East, West) of the star.

(7 marks)



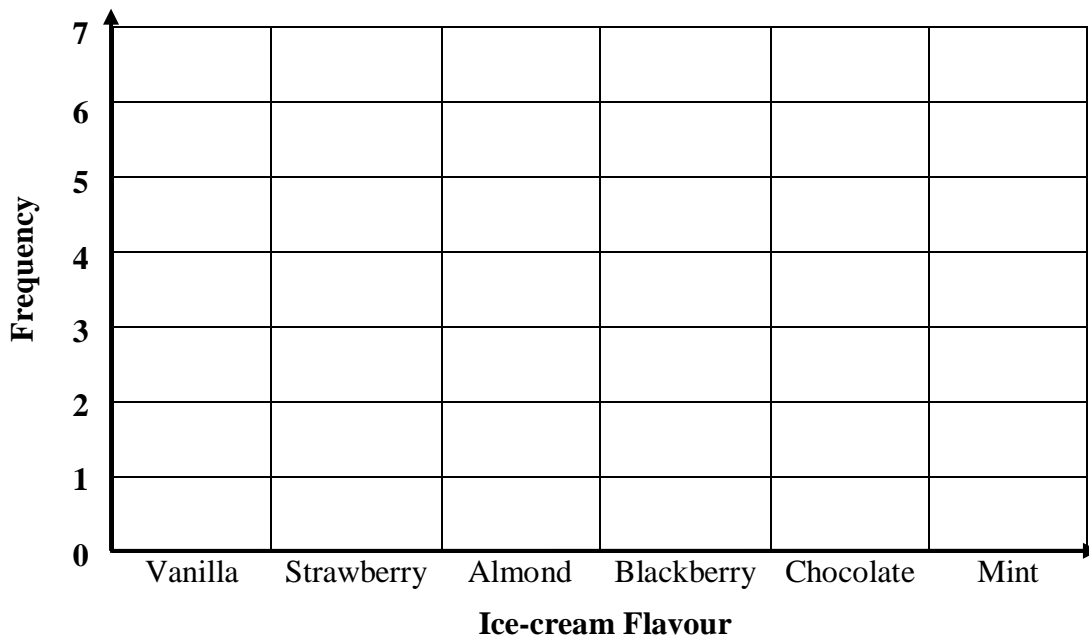
7. The students in a class are asked what their favourite ice-cream flavour is. These are their answers.

Vanilla	Strawberry	Almond	Blackberry	Vanilla
Strawberry	Chocolate	Almond	Mint	Chocolate
Mint	Vanilla	Vanilla	Chocolate	Strawberry
Chocolate	Almond	Vanilla	Almond	Vanilla

a) Complete the following frequency table:

Flavour	Tally	Frequency
Vanilla		
Strawberry		
Almond		
Blackberry		
Chocolate		
Mint		
	Total	

b) Draw a **Bar Graph**.



c) Which is the **most** favourite flavour? _____

d) How many students prefer **Blackberry** or **Mint**? _____

(10 marks)

8. This **timetable** shows part of the radio programmes on Sunday.

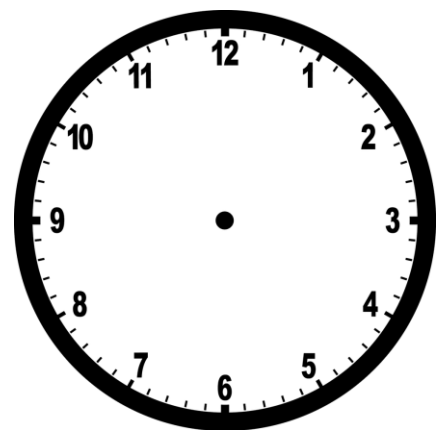
08:30	Top Music Hits
10:30	News
10:45	Keeping Healthy
11:15	Sounds of the 60's
12:00	Family Show
13:30	Music with DJ Joe



a) At what time does **Top Music Hits** finish? _____

b) Mark turns on the radio at **eleven o'clock**.
Which radio programme is there at this time?

c) Draw the hands on the clock face to show the time when **Sounds of the 60's** starts.



d) **Music with DJ Joe** starts at 13:30. Write this time using 12-hour clock.

(6 marks)

9. **Match** the following stars to make up 3 sets of **equivalent quantities**.

The first one is done for you.

Fractions	Equivalent Fractions	Percentages
$\frac{1}{2}$	$\frac{10}{100}$	4 %
$\frac{1}{10}$	$\frac{50}{100}$	10 %
$\frac{1}{25}$	$\frac{4}{100}$	50 %

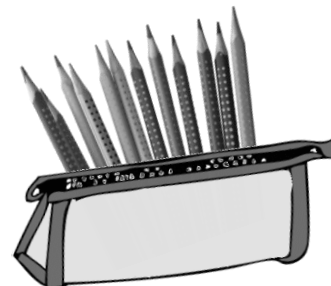
(4 marks)

10. a) Maria has 12 pencils in her pocket.

- i) 10 pencils are coloured pencils and the other 2 pencils are black ones.

Underline the correct word:

Maria is (unlikely, likely, certain) to pick a coloured pencil from her pocket.

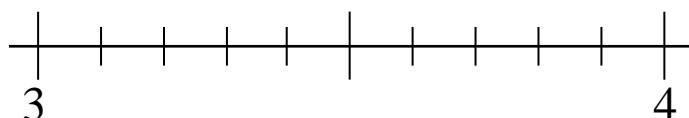


- ii) She gives $\frac{1}{4}$ of her 12 pencils to Matthew.

How many pencils does she give to Matthew?

_____ pencils

b) Mark these numbers on the number line: **3.5** **3.8**



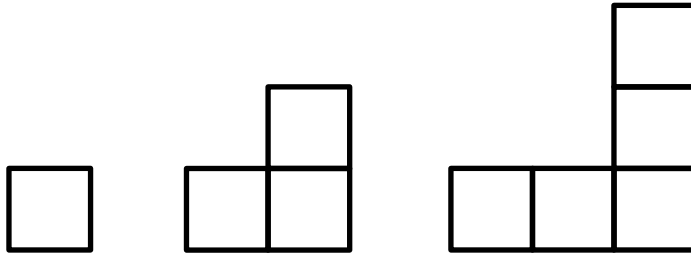
(5 marks)

11. a) Continue these number patterns:

i) 5, 9, 13, _____, _____, _____, _____.

ii) 65, 55, 45, _____, _____, _____, _____.

b) Use ruler and pencil to draw the **next shape in the pattern.**



(8 marks)

12.

February 2017

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				

a) How many **days** are there in February 2017? _____ days

b) How many **Saturdays** are there in February 2017? _____ Saturdays

c) What **day** was it on **31st January** 2017? _____

d) i) **Mark** Valentine's day (**14th February**) with a  around the date.

ii) On which **day** of the week is it? _____

e) Daniel went for a holiday in London from **4th February** till **12th February**.

How many **days** did he spend in London? _____ days

(6 marks)