ST NICHOLAS COLLEGE
RABAT MIDDLE SCHOOL
HALF YEARLY EXAMINATIONS 2016

Level 5-6-7

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

Name: _____ Class: _____

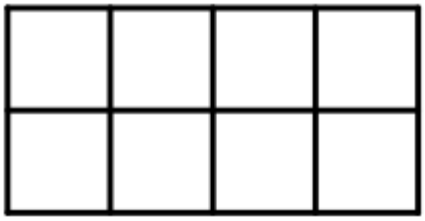
Ques.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	Main	NC	Global Mark
Mark																				

DO NOT WRITE ABOVE THIS LINE

INSTRUCTIONS TO CANDIDATES

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

1. a) **Shade** $\frac{1}{8}$ of the whole rectangle.



b) Shade another $\frac{1}{4}$ of the **whole** rectangle.

c) What fraction is **not shaded**?

Ans: _____

(3 marks)

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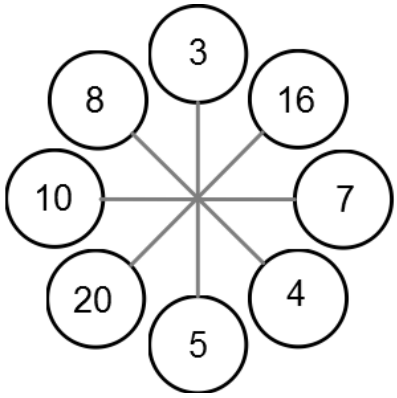
2. **Shade** all multiples of 4.



(2 marks)

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3. Peter is in a shop. He buys 2 packets of crisps at 45 cent each and 5 bottles of water at 90 cent each.

a) What is the **total cost**?

Ans: _____

b) Are €10 enough to pay the bill? Explain.

_____

_____

(6 marks)

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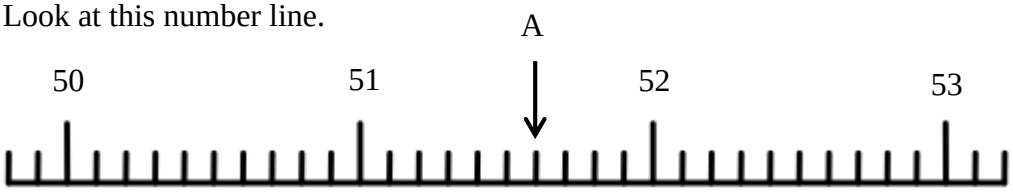
4. Look at this number line.



Put these numbers in the correct place on the number line. Mark with an arrow.

The first one is done for you.

A → 51.6 B → 50.8 C → 52.2 D → 51.9 E → 50.7

(4 marks)

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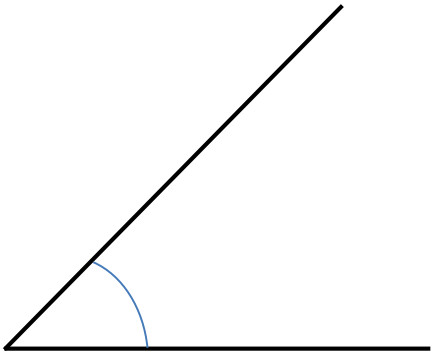
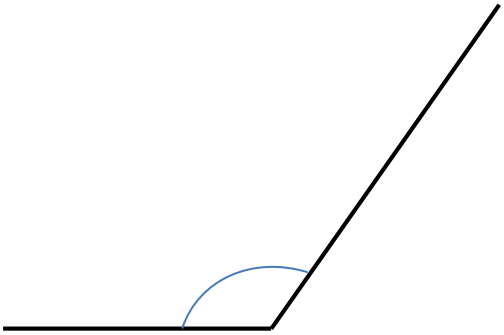
5. Measure these angles, using your protractor.



Ans _____



Ans _____

(4 marks)

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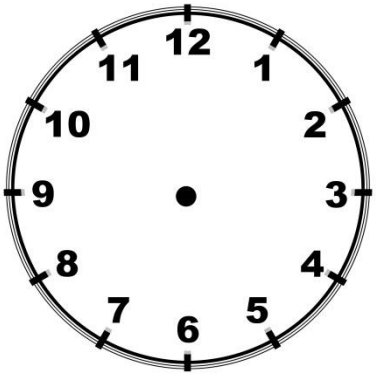
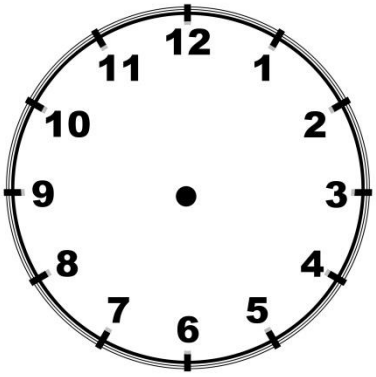
6. Sarah left home at **half past 8** and arrived at school at **quarter past 9**. Show both times on these clocks.





(4 marks)

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7. Change to **24 hour clock**.

a) 4:15 pm _____

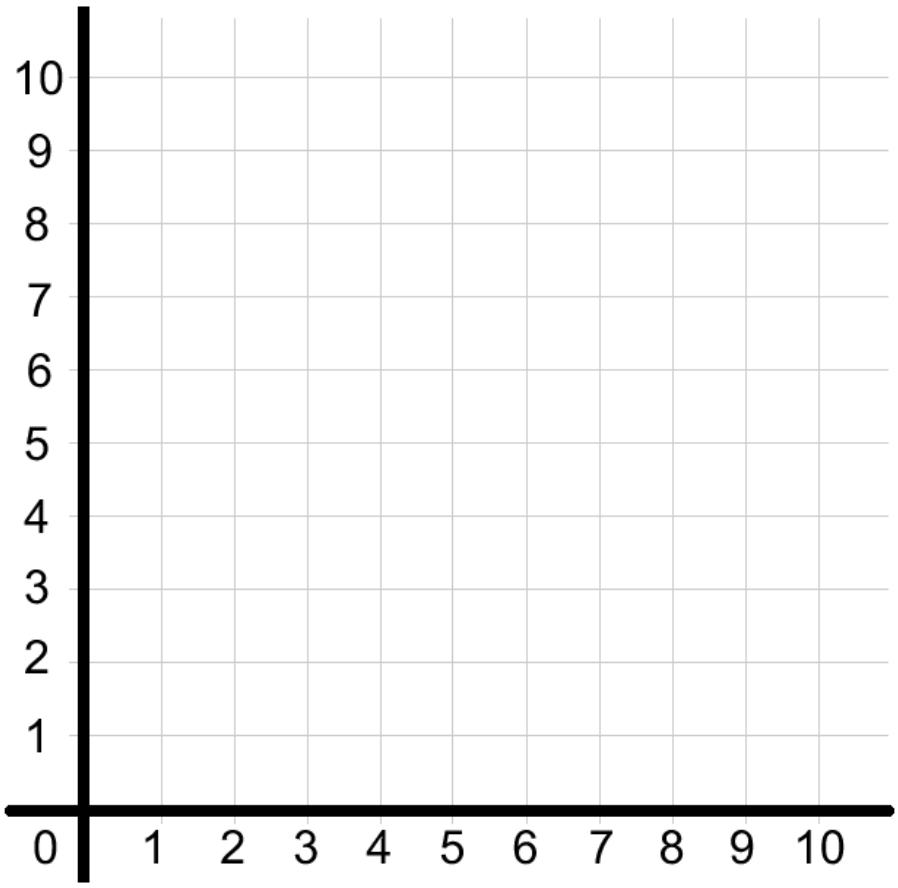
b) 1:20 pm _____

c) 8:30 am _____

(3 marks)

8. **Plot** the following points and **join** them in alphabetical order. Join H to A.

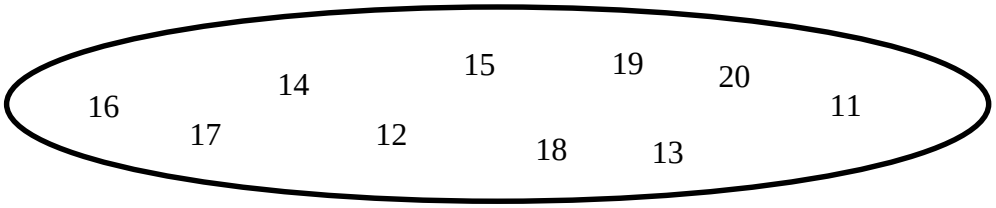
A(5,9)	B(6,6)	C(9,5)	D(6,4)
E(5,1)	F(4,4)	G(1,5)	H(4,6)



What shape have you drawn? _____

(9 marks)

9. Look at the numbers given in the loop. (Numbers can be used more than once).



a) Write one **even** number. _____

b) Write one **odd** number. _____

c) Write one **square** number. _____

d) Write a **factor** of 24. _____

e) Write a **prime** number. _____

(5 marks)

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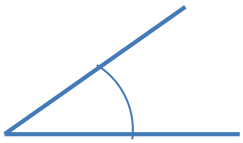
10. Choose the correct answer from

Obtuse angle	Reflex angle	Acute angle	Right angle

a) 

Ans _____

b) 

Ans _____

c) 

Ans _____

(3 marks)

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11 Find:

a) $\frac{50}{100} \times 460$

Ans _____

b) $20\%\ of\ 300$

Ans _____

(2 marks)

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12. Some students play these sports:

football	volleyball	handball	football	volleyball	netball
handball	volleyball	netball	volleyball	handball	football
volleyball	football	handball	netball	football	volleyball
football	volleyball	volleyball	handball	football	netball
handball	netball	football	volleyball	handball	volleyball

a) Complete the frequency table given below.

Sports	**Tally**	**Frequency**
Football		
Volleyball		
Netball		
Handball		

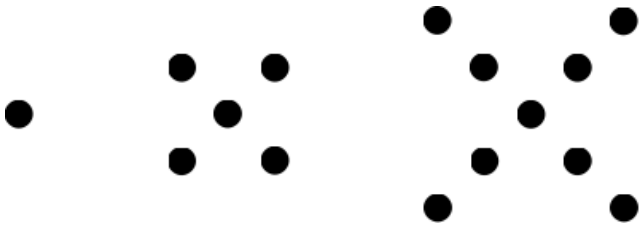
b) Draw the pictogram to represent the data.

Use the symbol  to represent 2 students.

Football	
Volleyball	
Netball	
Handball	

(8 marks)

13. a) Draw the next pattern in the sequence.



1st | 2nd | 3rd | 4th

b) How many dots has the 4^{th} pattern? Ans _____

(6 marks)

14. Find:

a) $\frac{1}{5}\ of\ 35kg$

Ans _____

b) $\frac{2}{7}\ of\ 49cent$

Ans _____

c) Paula made 50 cupcakes. $\frac{2}{5}$ of the cupcakes are chocolate. How many chocolate cupcakes are there?

Ans _____

(6 marks)

15. Work out

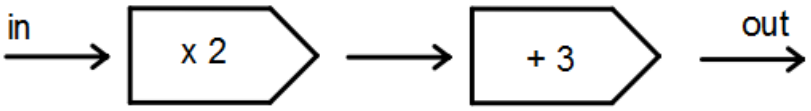
a) 25 × 100 = _____

b) 3.75 × 10 = _____

c) 46000 ÷ 100 = _____

(3 marks)

16. Fill in the table for this number machine.



in	out
5	
4	
3	

(3 marks)

17. Use the calendar to answer the questions below.

2014 OCTOBER

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			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	29	30	31	

a) Petra goes to piano lessons every Thursday. How many times did she go in October 2014?

Ans _____

b) If she paid €6 every time. How much did she pay for piano lessons in that October?

Ans _____

c) In 2015, 1st October was on a Thursday. How many Thursdays were there in October 2015?

Ans _____

(4 marks)

END OF PAPER