
FORM 1

MATHEMATICS
Non Calculator Paper

TIME: 30 minutes

Name: _____

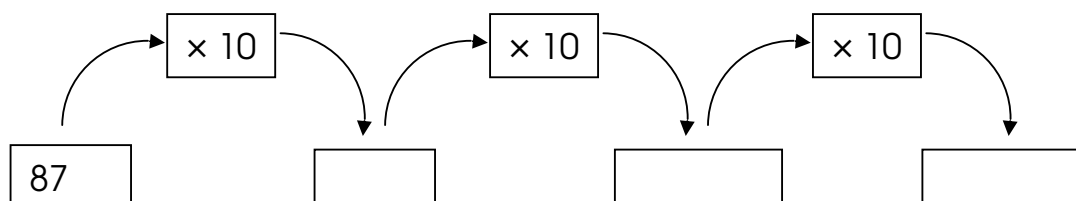
Class: _____

Question	1	2	3	4	5	6	7	8	Total
Mark									

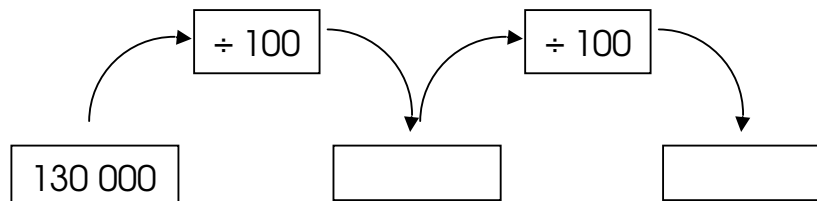
Instructions to Candidates

- **Answer all questions.**
 - **This paper carries a total of 25 marks.**
 - **Calculators and protractors are NOT ALLOWED.**
-

1. a)



b)



(5 marks)

2. a) $4 \times 8 =$

b) $5 \times$ $= 35$

c) $12 \div 4 =$

d) $42 \div$ $= 7$

(4 marks)

3. Ramona buys a packet of biscuits at €1.25, a box of chocolates at €2.33 and a bag of sweets at €1.37.

a) How much does she spend?

Answer _____

b) She pays with a 5 Euro note. What change does she get?

Answer _____

(4 marks)

4. The prices for a boat trip are as follows:

Adult €2.50

Child €1.30

- a) Complete this formula:

Cost (€) = × number of adults + × number of children.

- b) Work out the cost for a trip for a family of 2 adults and 3 children.

Cost for 2 adults € +

Cost for 3 children €

Total Cost €

(4 marks)

-
5. a) Paul is **1 metre 55 centimetres** tall.
Write this height in **centimetres**.

Answer _____cm

- b) A can holds **3.5 litres** of water.
How many **millilitres** of water does this can hold?

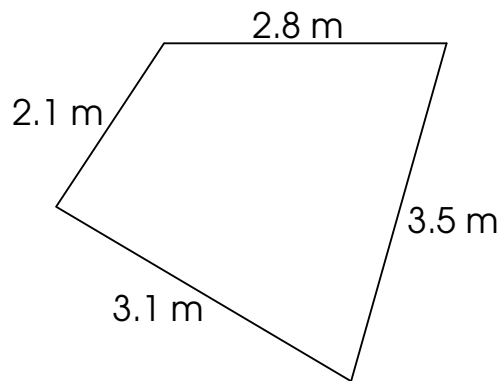
Answer _____ml

- c) A box of oranges weighs **7400 grams**.
Write this weight in **kilograms**.

Answer _____kg

(3 marks)

6. Work out the **perimeter** of this field.



Answer _____m

(2 marks)

7. This is the number of goals for 5 football matches:

Match 1: 5 goals.
Match 2: 4 goals.
Match 3: 2 goals.
Match 4: 1 goal.
Match 5: 3 goals.

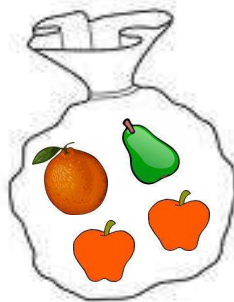


Work out the **mean number of goals** in each match.

Answer _____

(2 marks)

8. A bag contains an orange, two apples and a pear.
What is the probability that I pick an apple from this fruit bag?



Answer _____

(1 mark)

FORM 1

MATHEMATICS
Main Paper

TIME: 1h 30 min

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	Total Main	Non Calc	Global Mark
Mark																		

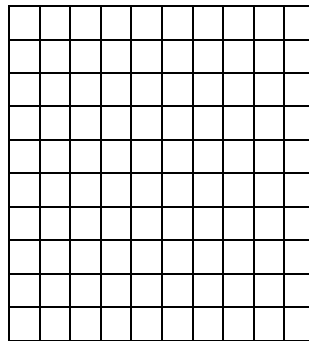
DO NOT WRITE ABOVE THIS LINE

Name: _____

Class: _____

CALCULATORS ARE ALLOWED BUT ALL NECESSARY WORKING MUST BE SHOWN.
ANSWER ALL QUESTIONS

1. Use the 10 by 10 square below to complete these sentences:



- a) The 10 by 10 square has _____ small squares.
- b) One half of the shape will have _____ small squares.
- c) One half of the shape is _____.
 (12 per cent, 50%, 75 out of hundred)

(3 marks)

2.

JULY 2011

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>	<u>1</u>	<u>2</u>
<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>
<u>10</u>	<u>11</u>	<u>12</u>	<u>13</u>	<u>14</u>	<u>15</u>	<u>16</u>
<u>17</u>	<u>18</u>	<u>19</u>	<u>20</u>	<u>21</u>	<u>22</u>	<u>23</u>
<u>24</u>	<u>25</u>	<u>26</u>	<u>27</u>	<u>28</u>	<u>29</u>	<u>30</u>
<u>31</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>

a) (i) What day of the week was July 6th?

Answer _____

(ii) How many Saturdays were there in this month?

Answer _____

(iii) What day of the week was August 1st 2011?

Answer _____

b) At **four o'clock in the afternoon** I go to the beach.

Write this time using the 24-hour clock.

Answer _____

(4 marks)

Name: _____

Class : _____

3. a) Maria goes to a garden shop to buy some things.
Complete this bill for her.

3 flowering pots at €1.44 each. _____

2 bags of fertilizer at €1.23 each. _____

4 packets of seeds at €0.80 each. _____

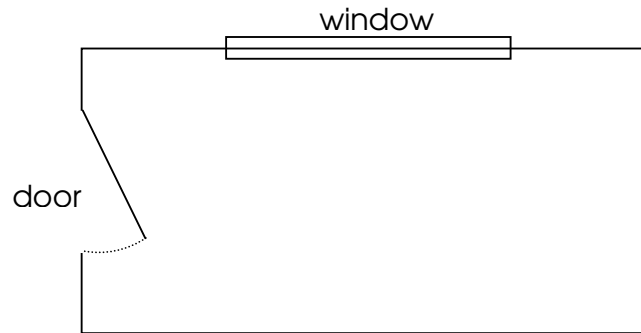
Total cost _____

- b) A group ticket for **five people** costs €11.00.
Dylan is one of a group of five friends taking the group
ticket. How much does he pay?

Answer _____

(5 marks)

4. Timmy's room is 4 metres long and 2 metres wide. There is a
2 metre window on the longer side and a 1 metre door on
the shorter side.



- a) **Measure on the diagram:**

(i) the length of the room Answer _____ cm

(ii) the width of the room Answer _____ cm

(iii) the width of the window Answer _____ cm

(iv) the width of the door Answer _____ cm

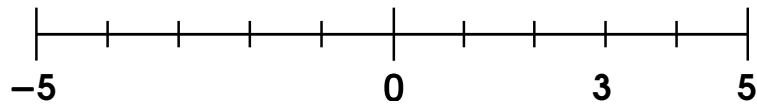
- b) What **scale** is being used to draw the plan of Timmy's
room?

Answer _____ cm to _____ m

(6 marks)

5. a) Put these numbers on the number line below. The first one is already done for you.

3; **-1 ;** **-4 ;** **2.**



- b) These are the temperatures in Warsaw and Helsinki.

Warsaw **-3°C**, Helsinki **-5°C**

Which city has the colder temperature?

Answer _____

(4 marks)

6. a) Fill in the missing numbers in this table:

Number	Nearest 1000	Nearest 100	Nearest 10
1836	2000		
2153		2200	
2719			2720

- b) Diane goes to the grocer and gets this bill:

€1.98
€2.12
€4.82
€11.05
€19.97

What euro note/notes does she need to pay this bill?

Answer _____

(7 marks)

Name: _____ Class : _____

7. Work out:

a) $(4 + 2) \times (2 + 7)$

Answer _____

b) $2.5 + 3.2 \times 1.5$

Answer _____

c) $8 \div (1.3 + 2.7)$

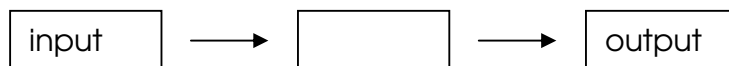
Answer _____

(6 marks)

8. a) Complete the table of inputs and outputs for the number machine.

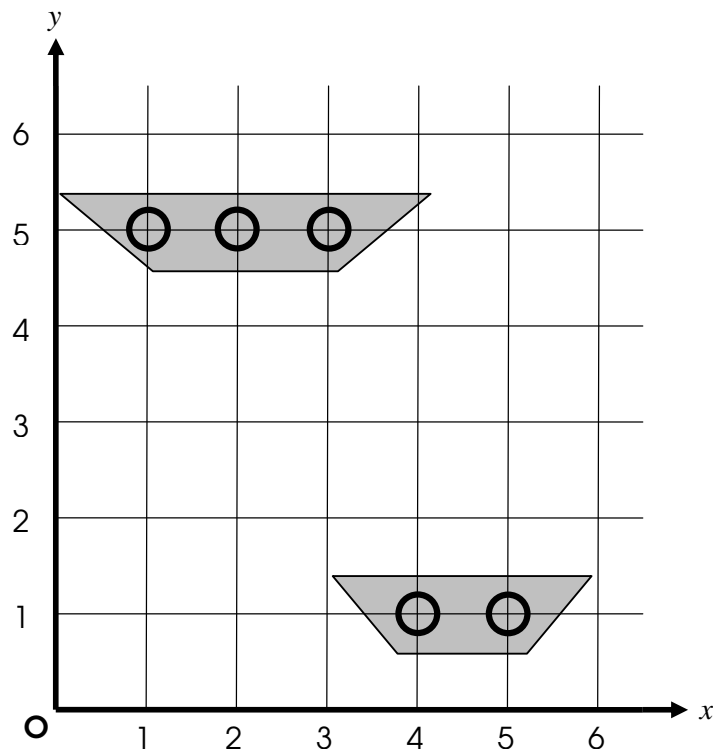
Input	5	7	8	11	14
Output	3	5	6		

b) Fill in the space in this number machine.



(3 marks)

9. Tony and Maria are playing the battle-ship game.
This is Tony's sheet.



- a) Maria chooses three points to try to hit Tony's ships.
These are $(1,1)$, $(5,3)$, $(3,4)$.

Mark these points on Tony's grid.

- b) Does Maria hit any of Tony's ships?

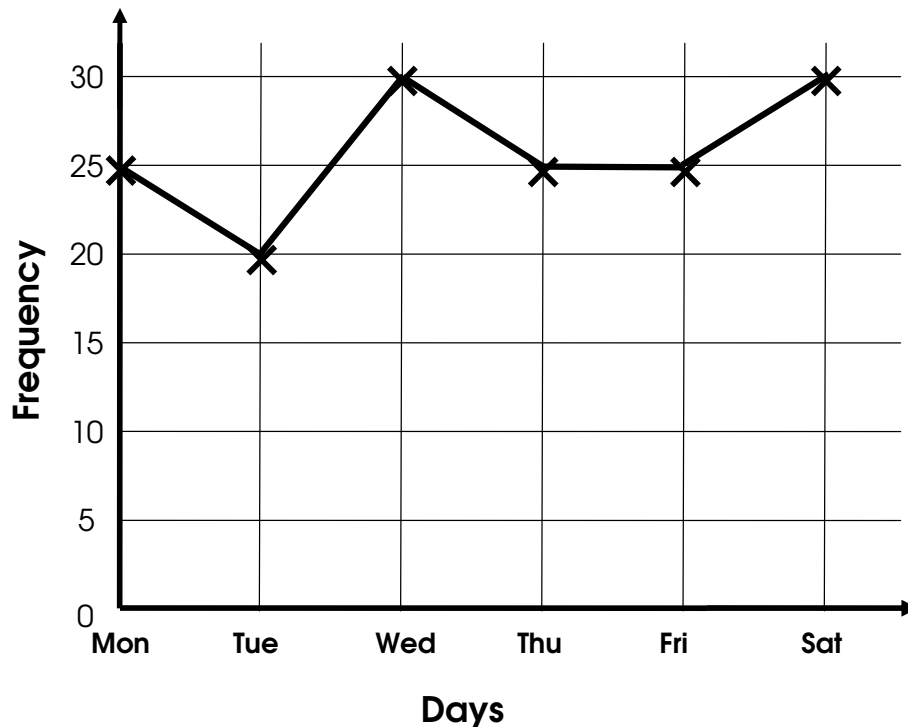
Answer _____

- c) Mark on the grid two points that will hit one of Tony's two ships.

Answer _____

(6 marks)

10. Alfred has a plant shop and he keeps a record of the number of plants he sells each day. This is his record sheet for a particular week.

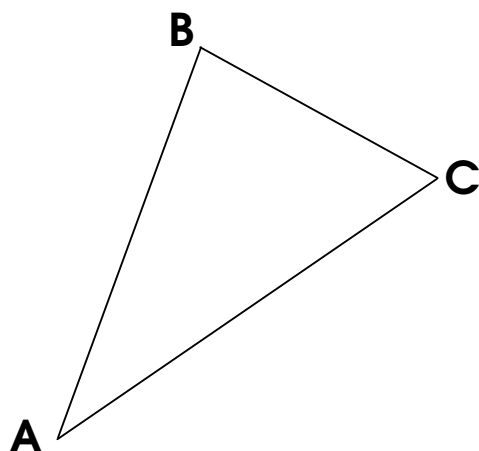


- a) Alfred sells the largest number of plants on _____ and _____.
- b) Alfred sells the least number of plants on _____.
- c) How many plants does he sell **in all** during this week?

Answer _____

(4 marks)

11. a) Measure the angles of the triangle **ABC**.



(i) angle **A** _____°

(ii) angle **B** _____°

(iii) angle **C** _____°

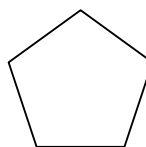
(iv) Triangle **ABC** is _____ triangle.
(a scalene, an isosceles, an equilateral)

- b) How many **lines of symmetry** do these shapes have?

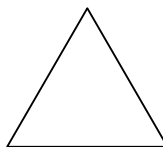
(i) a square:



(ii) a regular pentagon:

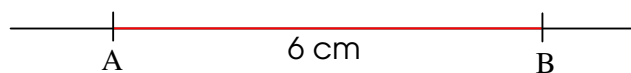
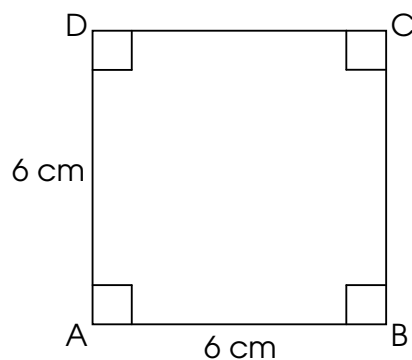


(iii) an equilateral triangle:



(7 marks)

12. a) Use your ruler and your set square or protractor to draw a square whose sides are 6 cm each. Line AB is done for you.

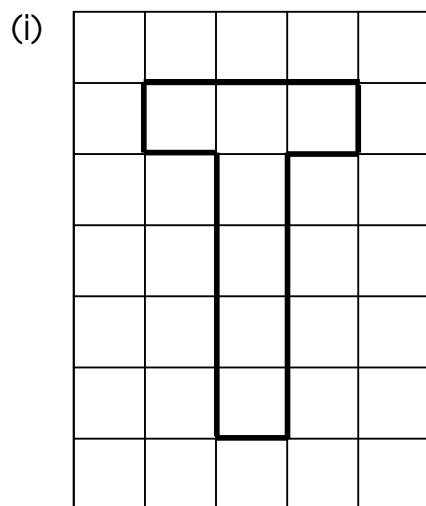


- b) Fill in the missing LOGO commands for the turtle to draw a square.

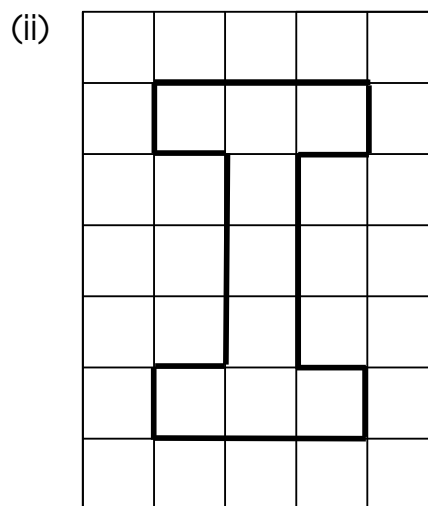
PD REPEAT 4 (____ 50 RT ____)

(5 marks)

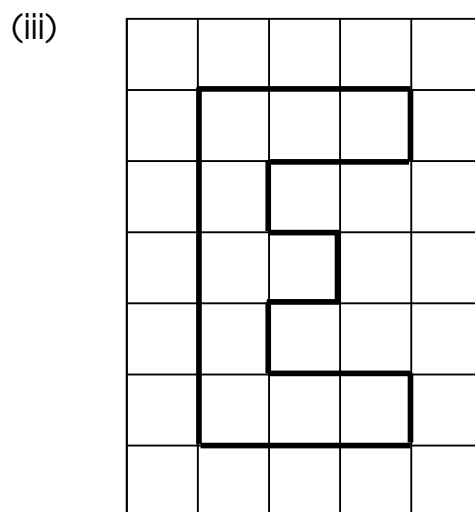
13. a) What is the area of each of these letters?
(Each square represents 1cm^2)



Area _____ cm^2



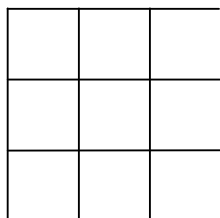
Area _____ cm^2



Area _____ cm^2

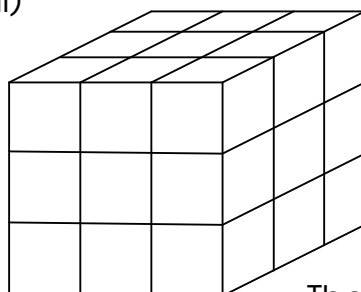
13. b) Fill in the units for these measurements.
(Choose from m, cm, cm^2 , cm^3 .)
Each square has a side of 1cm.

(i)



The area of this square is 9 _____

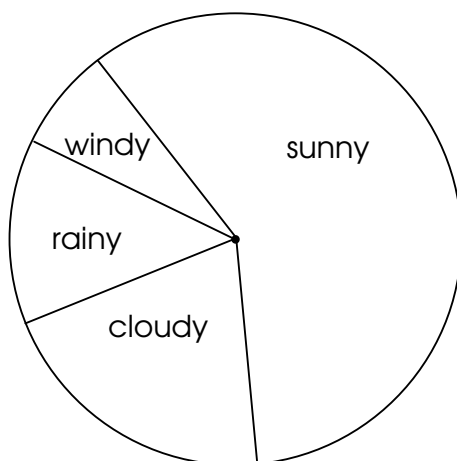
(ii)



The volume of this cube is 27 _____

(5 marks)

14. a) The pie chart shows the type of weather we had last March.



Choose **True** or **False** near each sentence.

True **False**

(i) More than 15 days were sunny last March.

☐ ☐

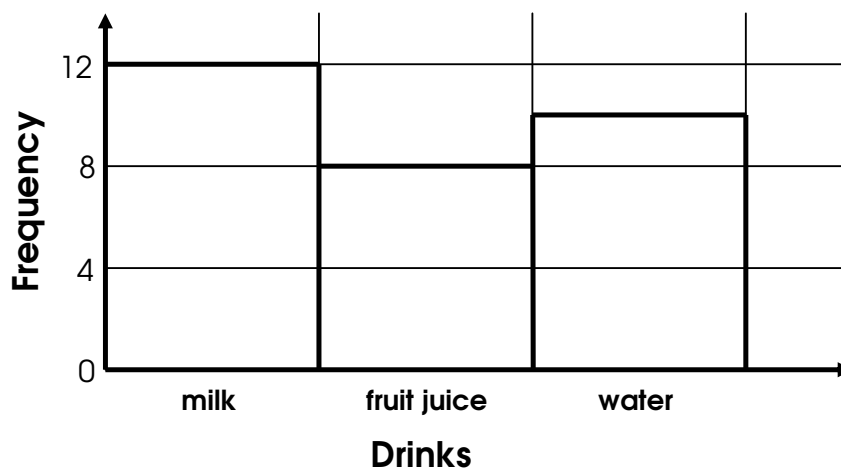
(ii) We had rain everyday.

☐ ☐

(iii) The weather was mostly windy in March.

☐ ☐

14. b) This bar chart shows the favourite drinks of a class of students.

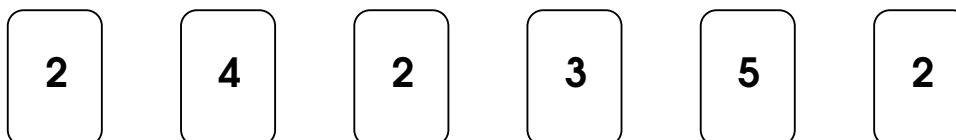


- (i) Students like to drink _____ most.
- (ii) How many students like water?

Answer _____

(5 marks)

15. Brandon closes his eyes and picks a card from the following:



- a) What is the probability that he picks:

- (i) a 2? Answer _____
- (ii) a 3? Answer _____
- (iii) a multiple of 2? Answer _____
- (iv) an odd number? Answer _____

- b) It is (certain, likely, unlikely, impossible) that Brandon picks a 6.

(5 marks)

END OF PAPER

FORM 1

MATHEMATICS

MARKING SCHEME

NON CALCULATOR PAPER (25 marks)

No.	Answers	Marks	Level	Total
1.	(a) 870, 8700, 87000 (b) 1300, 13	B1 B1 B1 B1 B1	6 6	5
2.	(a) 32 (b) 7 (c) 3 (d) 6	B1 B1 B1 B1	6 6 6 6	4
3.	(a) €4.95 (b) €0.05 o.e.	M1 A1 M1 A1(f.t.)	6 6	4
4.	(a) €2.50 , €1.30 (accept 2.5, 1.3) (b) €5.00 + €3.90 €8.90	B1 B1 M1 A1	5 7	4
5.	(a) 155 (b) 3500 (c) 7.4 (accept 7 kg 400 g)	B1 B1 B1	6 6 6	3
6.	11.5	M1 A1	6	2
7.	3 goals	M1 A1	5	2
8.	$\frac{1}{2}$ or 0.5	B1	6	1

MAIN PAPER (75 marks)

No.	Answers	Marks	Level	Total
1.	(a) 100 (b) 50 (c) 50%	B1 B1 B1	5 6 5	3
2.	(a) (i) Wednesday (ii) 5 (iii) Monday (b) 16:00	B1 B1 B1 B1	6 6 6 7	4
3.	(a) €4.32, €2.46, €3.20, €9.98 (b) €2.20	B1 B1 B1 B1 B1	6 7	5
4.	(a) (i) 8 ± 0.1 (ii) 4 ± 0.1 (iii) 4 ± 0.1 (iv) 2 ± 0.1 (b) 2 cm to 1 m	B1 B1 B1 B1 M1 A1	6 6 6 6 7	6

5.	(a) correct placings on the number line.					B3 (–1 e.e.o.o.)	6																	
	(b) Helsinki					B1	7	4																
6.	(a)	<table><tr><th>Number</th><th>Nearest 1000</th><th>Nearest 100</th><th>Nearest 10</th></tr><tr><td>1836</td><td>2000</td><td>1800</td><td>1840</td></tr><tr><td>2153</td><td>2000</td><td>2200</td><td>2150</td></tr><tr><td>2719</td><td>3000</td><td>2700</td><td>2720</td></tr></table>	Number	Nearest 1000	Nearest 100	Nearest 10	1836	2000	1800	1840	2153	2000	2200	2150	2719	3000	2700	2720				B6 (–1 e.e.o.o.)	6	
Number	Nearest 1000	Nearest 100	Nearest 10																					
1836	2000	1800	1840																					
2153	2000	2200	2150																					
2719	3000	2700	2720																					
	(b) 1 × 20 Euro note or 2 × 10 Euro notes or 4 × 5 Euro notes					B1		7																
7.	(a) 54					M1 A1	5																	
	(b) 7.3					M1 A1	6																	
	(c) 2					M1 A1	7	6																
8.	(a) 9, 12					B1 B1	6																	
	(b) –2					B1	6	3																
9.	(a) correct marking on the grid					B1 B1 B1	5																	
	(b) no					B1	5																	
	(c) Any two of (1,5); (2,5); (3,5); (4,1); (5,1).					B1 B1	5	6																
10.	(a) Wednesday and Saturday					B1	5																	
	(b) Tuesday					B1	5																	
	(c) 155					M1 A1	5	4																
11.	(a) (i) 35° (± 2°)					B1	6																	
	(ii) 82° (± 2°)					B1	6																	
	(iii) 63° (± 2°)					B1	6																	
	(iv) a scalene					B1	5																	
	(b) (i) 4					B1	5	7																
	(ii) 5					B1	5																	
	(iii) 3					B1	5																	
12.	(a) correct drawing					B3(–1 e.e.o.o.)	6																	
	(b) FD 90					B1,B1	7	5																
13.	(a) (i) 7					B1	6																	
	(ii) 9					B1	6																	
	(iii) 10					B1	6																	
	(b) (i) cm ²					B1	6																	
	(ii) cm ³					B1	6	5																
14.	(a) (i) True					B1	6																	
	(ii) False					B1	6																	
	(iii) False					B1	6																	
	(b) (i) milk					B1	5																	
	(ii) 10					B1	5	5																

15.	(a) (i) $\frac{3}{6}$ or $\frac{1}{2}$	(ii) $\frac{1}{6}$	B1 B1	6	5
	(iii) $\frac{4}{6}$ or $\frac{2}{3}$	(iv) $\frac{2}{6}$ or $\frac{1}{3}$	B1 B1	6	
	(b) impossible		B1	5	

Legend:

f.t. → follow through

o.e. → or equivalent

e.e.o.o. → each error or omission

c.a.o. → correct answer only

M → method mark

A → accuracy mark (not awarded if following a wrong method)

B → correct answer

Non Calculator Paper

No.	Unit	Level	Marks	Total
1. a)	Unit 1	6	3	5
b)	Unit 1	6	2	
2. a)	Unit 1	6	1	4
b)	Unit 1	6	1	
c)	Unit 1	6	1	
d)	Unit 1	6	1	
3. a)	Unit 4	6	2	4
b)	Unit 4	6	2	
4. a)	Unit 11	5	2	4
b)	Unit 4	7	2	
5. a)	Unit 6	6	1	3
b)	Unit 6	6	1	
c)	Unit 6	6	1	
6.	Unit 14	6	2	2
7.	Unit 10	5	2	2
8.	Unit 10	6	1	1

Main Paper

No.	Unit	Level	Marks	Total
1. a)	Unit 1	5	1	3
b)	Unit 5	6	1	
c)	Unit 5	5	1	
2. a) i)	Unit 6	6	1	4
ii)	Unit 6	6	1	
iii)	Unit 6	6	1	
b)	Unit 6	7	1	
3. a)	Unit 4	6	4	5
b)	Unit 4	7	1	
4. a) i)	Unit 6	6	1	6
ii)	Unit 6	6	1	
iii)	Unit 6	6	1	
iv)	Unit 6	6	1	
b)	Unit 6	7	2	
5. a)	Unit 12	6	3	4
b)	Unit 12	7	1	
6. a)	Unit 8	6	6	7
b)	Unit 4	6	1	
7. a)	Unit 12	5	2	6

b)	Unit 12	6	2	
c)	Unit 12	7	2	
8. a)	Unit 8	6	2	
b)	Unit 8	6	1	3
9. a)	Unit 13	5	3	6
b)	Unit 13	5	1	
c)	Unit 13	5	2	
10. a)	Unit 10	5	1	4
b)	Unit 10	5	1	
c)	Unit 10	5	2	
11. a) i)	Unit 2	6	1	7
ii)	Unit 2	6	1	
iii)	Unit 2	6	1	
iv)	Unit 9	5	1	
b) i)	Unit 9	5	1	
ii)	Unit 9	5	1	
iii)	Unit 9	5	1	
12. a)	Unit 7	6	3	5
b)	Unit 14	7	2	
13. a) i)	Unit 14	6	1	5
ii)	Unit 14	6	1	
iii)	Unit 14	6	1	
13. b) i)	Unit 14	6	1	
ii)	Unit 14	6	1	
14. a) i)	Unit 10	6	1	5
ii)	Unit 10	6	1	
iii)	Unit 10	6	1	
14. b) i)	Unit 10	5	1	
ii)	Unit 10	5	1	
15. a) i)	Unit 10	6	1	5
ii)	Unit 10	6	1	
iii)	Unit 10 & 3	6	1	
iv)	Unit 10 & 3	6	1	
b)	Unit 10	5	1	

Level	%
Level 7	10% - 15%
Level 6	55% - 65%
Level 5	25% - 30 %