DIRECTORATE FOR QUALITY AND STANDARDS IN EDUCATION
Department for Curriculum Management and eLearning
Educational Assessment Unit
Annual Examinations for Secondary Schools 2012

FORM 2	MATHEMATICS	TIME: 30 minutes
	Non Calculator Paper	

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. **True** or **False**:

		True	False
Ex	16 + 4 = 20	✓	
a)	30 + 20 = 500		
b)	$4 \times 2 > 10$		
c)	3 is a **prime** number		
d)	2 is a **factor** of 9		
e)	11 is an **odd** number		

(5 marks)

2. a) Liz shares sweets with her brother James.

   i) Does Liz share the sweets **equally**?

   YES ☐   NO ☐

   ii) How many sweets do they have **altogether**? _____ sweets

   iii) The sweets are to be shared equally.
        How many sweets should each get? _____ sweets

   b) Liz shares **12 cakes** among her **3 friends**.

   Cakes are to be shared **equally**.

   How many cakes should each of

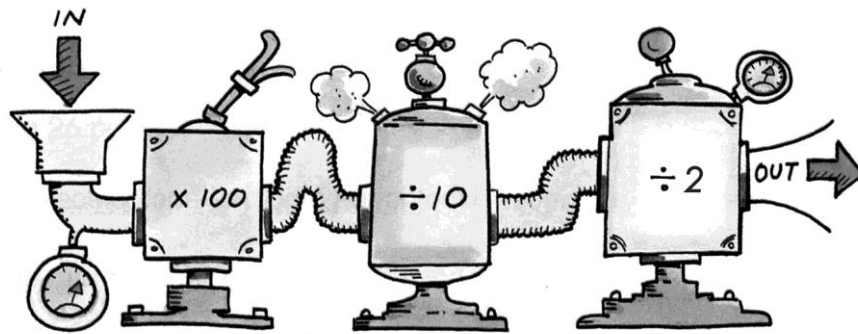   her friends get? _____ cakes

(4 marks)

3. Fill in:

   a) 300 cm = _____ metres

   b)   5 kg = _____ grams

                                                                    (2 marks)

4. Anna puts numbers in this number machine.

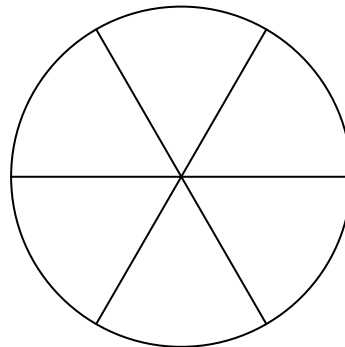   Work out the answer when she puts in **the number 4.**

                                                   Ans _____

                                                       (2 marks)
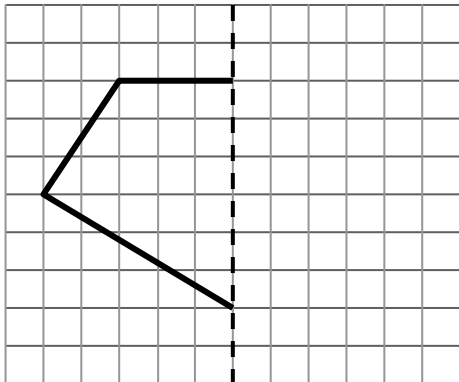
5.   a) Shade $\frac{2}{3}$ of this diagram.

     b) Fill in: $\frac{2}{3} = \frac{}{6}$

     c) Work out: $\frac{5}{6} - \frac{4}{6} = $ ____

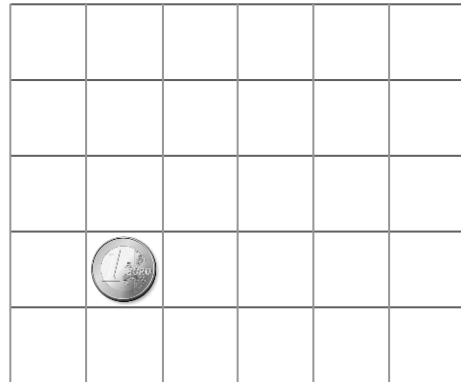   (3 marks)

6. a) Draw the reflection of this shape in the line of symmetry.

b) Move this Euro coin **3 right** and **2 up**. Draw the coin in the new position.

(2 marks)

7. This is the calendar for **June** and **July 2012**.

JUNE 2012						
Mon	**Tue**	**Wed**	**Thur**	**Fri**	**Sat**	**Sun**
				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	

JULY 2012						
Mon	**Tue**	**Wed**	**Thur**	**Fri**	**Sat**	**Sun**
						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) School ends on **22 June 2012**. What **day** is this? _____

b) Exams start Friday **before**. On what **date** do the exams start?

_____

c) Luke goes on holiday **6 days after** school ends.

On what **date** does his holiday start? _____

What **day** is this? _____

d) He comes back on **10/07/2012** early in the morning. How long

is his holiday? Underline the correct number of days:

10   **12**   **14**

(5 marks)

8. Becky and her 4 friends decide to share the total bill.
The total bill is **€25**. Calculate how much each pays.

€ _____

(2 marks)

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FORM 2	MATHEMATICS	TIME: 1h 30min
	Main Paper	

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14	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.

5   **8**   **7**   **1**   **3**

Fill in the blanks using the digits above:

a) Smallest 3-digit number

b) Largest 4-digit number

(4 marks)

2. a) Match the angles formed by the girl's fan to their correct n
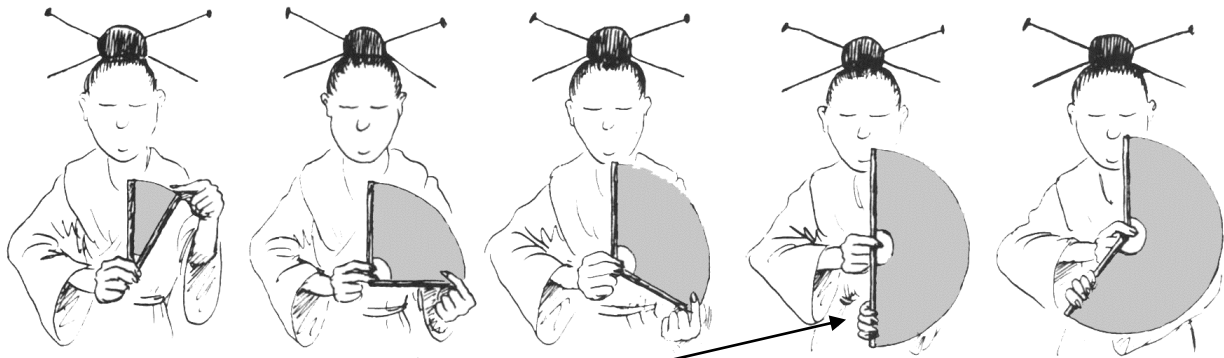
straight   **acute**   **right**   **reflex**   **obtuse**
   line   **angle**   **angle**   **angle**   **angle**

b) Use your **protractor** to draw and mark an angle of 50°.
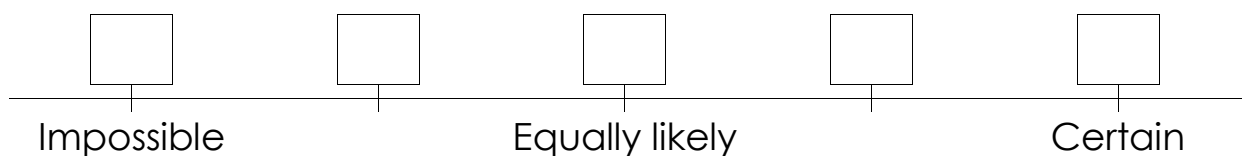
A   (5 marks)

3.   Write the letters of the statements in the correct places on the
        following probability scale.

        [A]   A dice will show an even number.

        [B]   You will live forever.

        [C]   Christmas Day will be in December.

Impossible   Equally likely   Certain

                                                                        (3 marks)

Name: _____   **Class:** _____

4. a) Help Tim fill in this cheque:

---

maths

Date: _10th June 2012_

PAY   _Paul Smith_

the sum of   _One thousand,_ ☐ _hundred_   € _1,376_

_____ _and_ ☐ _six Euro._

---

b) Tim buys an ice-cream.

He pays with a **€5** note.

Tim receives **€3.20** in **change**.

How much does an ice-cream cost,

in cent?

_____ cent

(4 marks)

---

5. a) **Circle** the odd one out:

i) (50%, $\frac{1}{2}$,   0.2,   0.5)

ii) (4,   5,   9,   11)

iii) (cm,   mm,   ml,   km)

b) **Fill in**:

i) 2, 4, _____, 8, 10

ii) 33, 32, 31, _____ , _____

iii) ☐ ⬒ ⬓   _____

(7 marks)

6. a) Measure line **AB**.   AB = _____

A   B
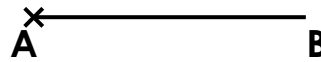
b) Draw a **circle** with centre A and radius AB.

(3 marks)

7. a)

72c   €1.12   €2.57

Mr Zerafa buys **carrots**, **broccoli** and **cherries**.

i) Which costs **least**? _____

ii) Calculate his **total bill**.

€ _____

iii) What **change** does Mr Zerafa get from €5.00?

€ _____

Name: _____ **Class:** _____

b) Angela goes shopping.

€1.72 €2.38 €3.61 €3.25 €2.50

i) Write the prices of Angela's shopping **in order**, starting from the **smallest**.

€_____, €_____, €_____, €_____, €_____

ii) Write each price correct to the **nearest Euro** (€).

| €1.72 | €2.38 | €3.61 | €3.25 | €2.50 |

€_____, €_____, €_____, €_____, €_____

iii) Use your answers in (ii) to calculate a **rough estimate** of how much Angela spends in all.

€ _____

(11 marks)

8. Fill in the blanks on this number line :

−5   0   5
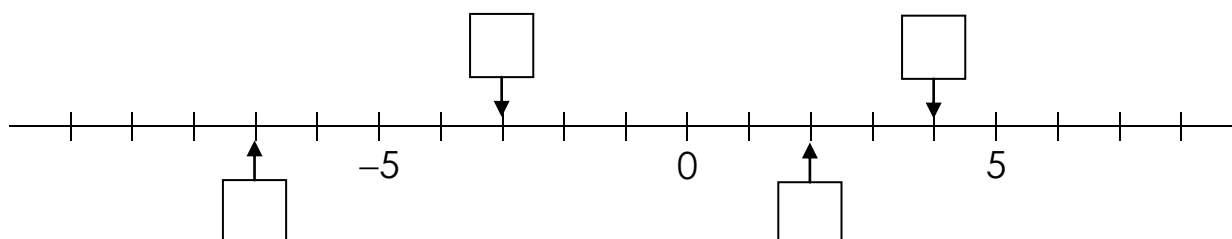
(3 marks)

9. This is what Alan does during a school day.
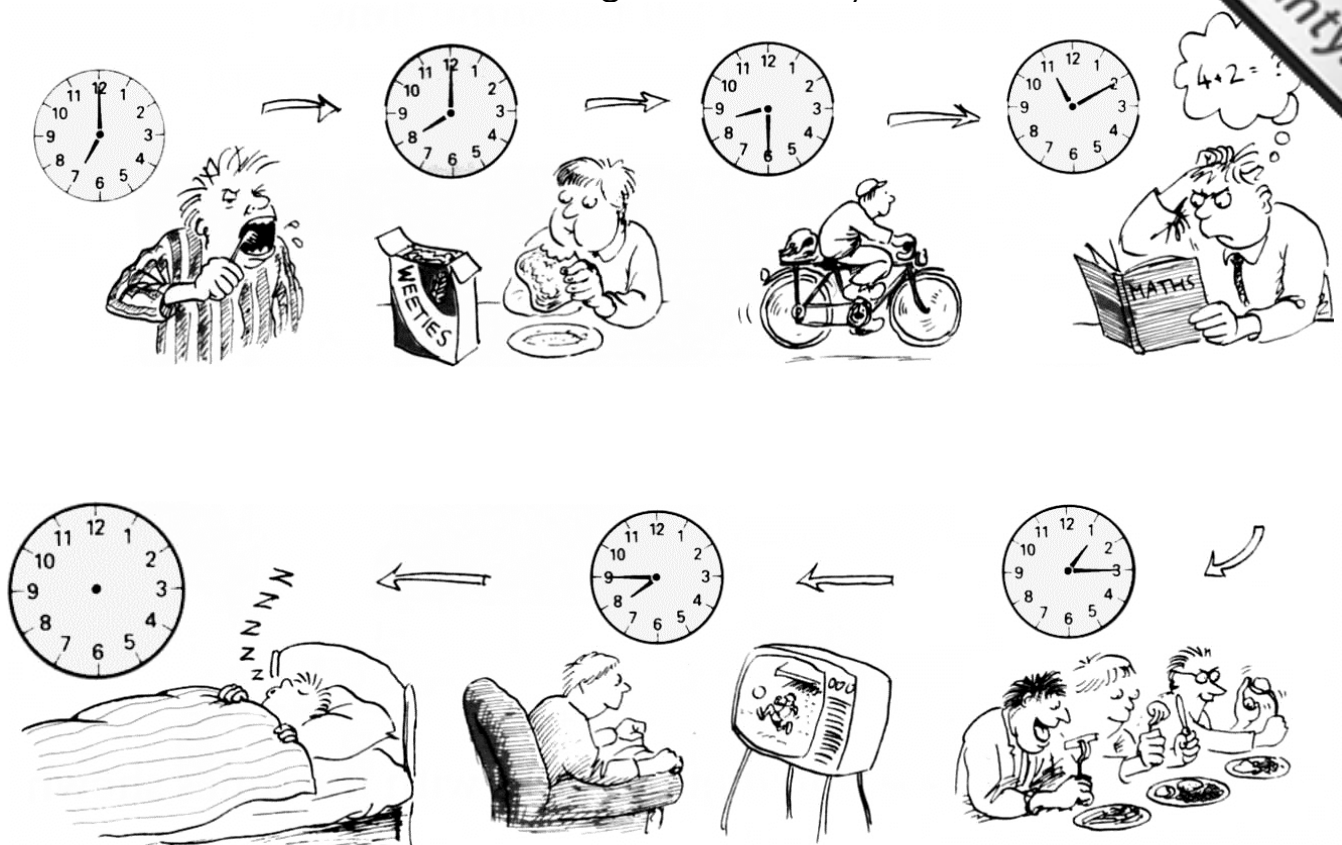
a) Fill in the blanks:

Ex	washes his teeth	7:00am	07:00	Seven o'clock in the morning
i)	eats breakfast		08:00	
ii)	rides to school	8:30am	08:30	
iii)	Maths lesson			ten past eleven in the morning
iv)	eats lunch		13:15	
v)	watches TV	7:45pm		

b) Alan goes to sleep at **22:40**.
   Draw this time in the blank clock on the diagram.

(8 marks)

10. a) Show which level
the water in bottle
B will reach when
poured in the
measuring jug.

A	200 *ml*

```
2000ml
1800
1600
1400
1200
1000
800
600
400
A →  200
```

water

B	2 *l*
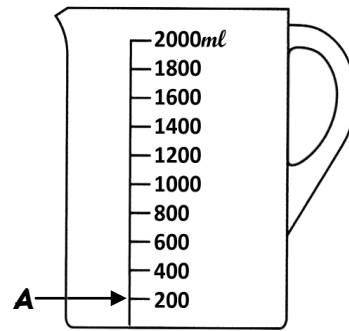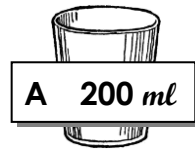
b) How many glasses (200 *ml*) can the **bottle of water** (2 *l*) fill?

_____ glasses

(2 marks)

11.
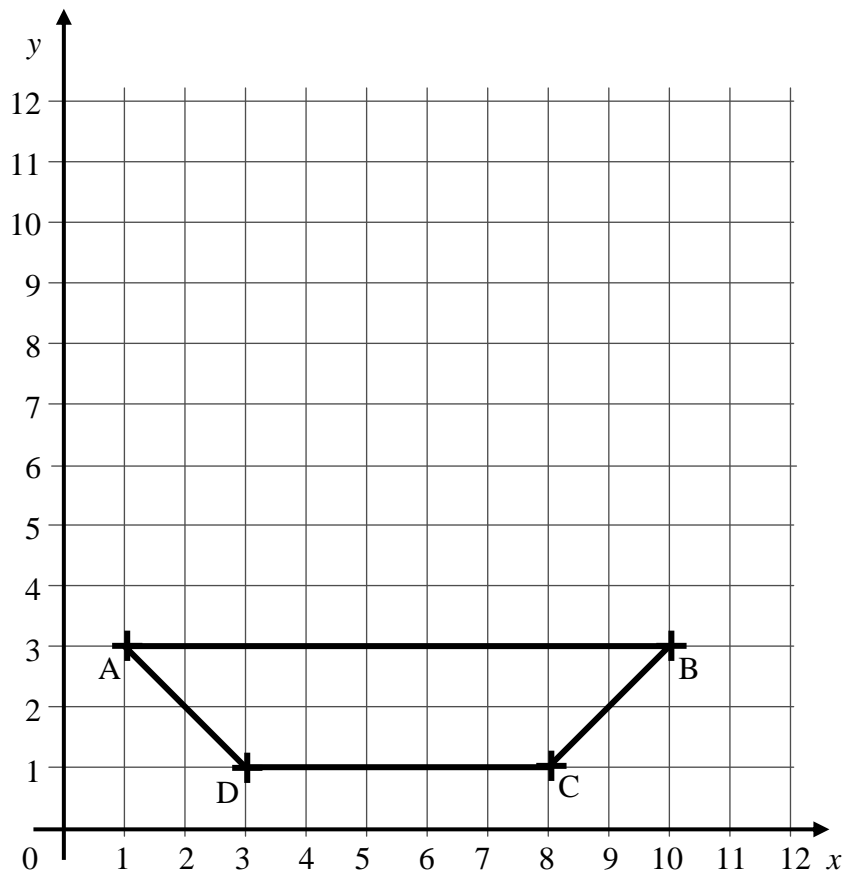
a) Fill in the coordinates of   **A** (,   )   and   **C** (,   )

b) Plot and label the following points: **E (3, 3);   F (3, 11);   G (9, 4)**

c) Join the lines **EF, FG** and **GE.**

(7 marks)

12.

A   B   C   D   E   F
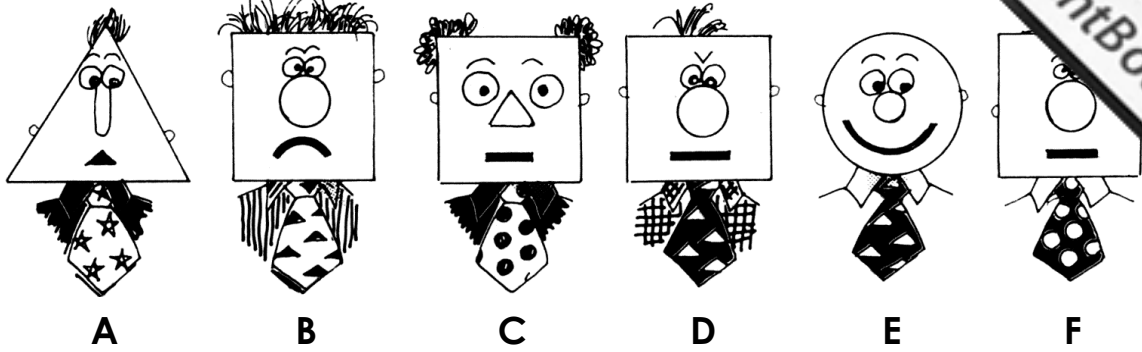
a) Use the clues below to find the correct picture.

It has a **square head**.
It has a **circle** for its nose.
The mouth is in the shape of a **rectangle**.
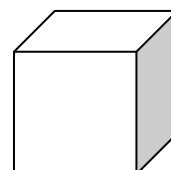It has **triangles** on its tie.

Diagram letter ☐ .

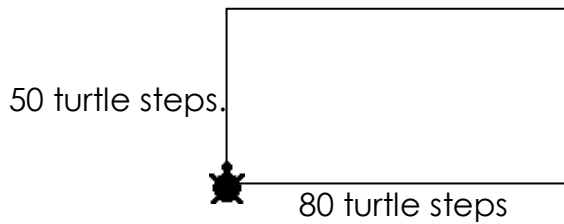b) Fill in the blanks using the following words:

| **cuboid,** | **cone,** | **sphere,** | **cylinder** |

cylinder
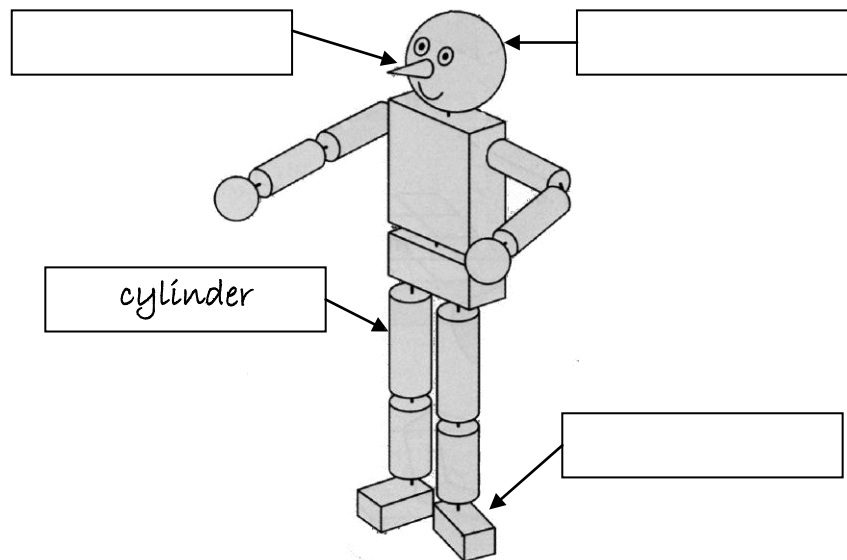
c) Fill in: A **cube** has _____ equal faces,

_____ equal edges and

_____ vertices.

(7 marks)

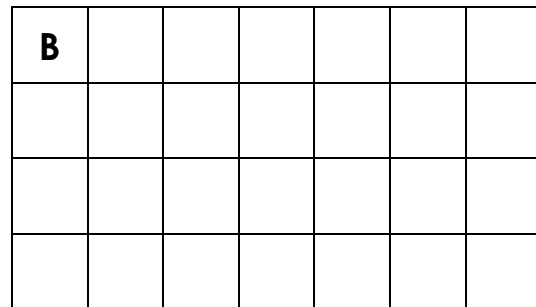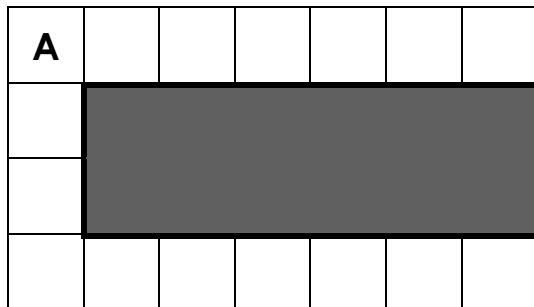13. a) Luke writes commands for the turtle to draw this rectangle.

Fill in the missing commands.

PD
FD 50
RT ____
____ 80
RT 90
FD 50
HOME

50 turtle steps.

80 turtle steps

b) Rectangle **A** has an area of 12 cm².

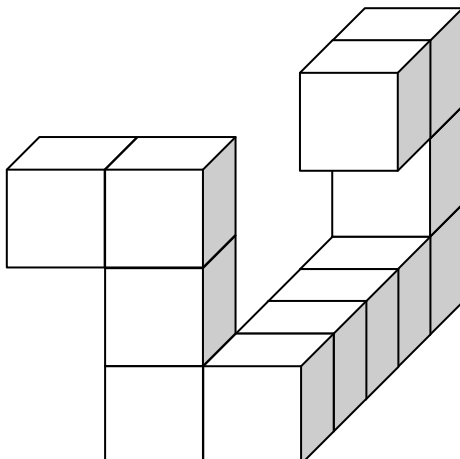i) Draw a different rectangle with an area of 12 cm².

A

B

ii) Fill in the blanks: Rectangle **A** has a perimeter of _____cm.

iii) Underline the correct one:

The perimeter of rectangle **B** is (equal to, bigger than, smaller than) the perimeter of rectangle **A**.

c) How many **cubes** are used to make this shape?

_____ cubes

Name:

_____

_____

14. Sam does a questionnaire among his friends at the football n

FOOTBALL NURSERY QUESTIONNAIRE

Boy ☐   **Age**   8 years ☐
Girl ☐   9 years ☐
                           10 years ☐
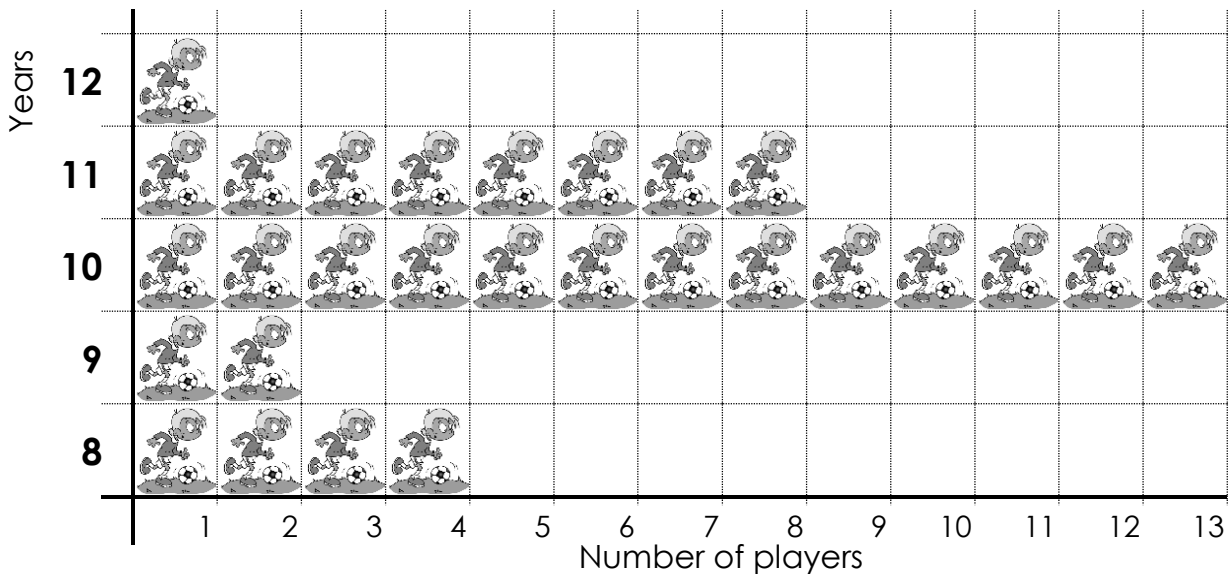   11 years ☐
                           12 years ☐

He shows the information collected in a chart:

a) How many players answered the questionnaire? _____ players

b) 75% of the players are boys. How many boys are there?

_____ boys

c) What is the most common age of the players? _____ years

d) What is the age of the oldest player? _____ years

(5 marks)

_____

END OF PAPER