

Centre No.						Paper Reference					Surname	Initial(s)	
Candidate No.									/			Signature	

Paper Reference(s)

Examiner's use only

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Team Leader's use only

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# Edexcel GCSE

## Mathematics – Two Tier

Stage 2 – Section B (Non-Calculator)

# Foundation Tier

Specimen Paper

Time: 30 minutes



**Materials required for examination**

Ruler graduated in centimetres and millimetres, protractor, compasses, pen, HB pencil, eraser.  
Tracing paper may be used.

**Items included with question papers**

Nil

**Instructions to Candidates**

In the boxes above, write your centre number, candidate number, your surname, initials and signature. Check that you have the correct question paper. Answer ALL the questions. Write your answers in the spaces provided in this question paper. If you need more space to complete your answer to any question, use additional answer sheets.

**Information for Candidates**

The marks for individual questions and the parts of questions are shown in round brackets: e.g. (2). There are 9 questions in this question paper. The total mark for this section is 25. There are 8 pages in this question paper. Any blank pages are indicated. **Calculators must not be used.**

**Advice to Candidates**

Show all stages in any calculations. Work steadily through the paper. Do not spend too long on one question. If you cannot answer a question, leave it and attempt the next one. Return at the end to those you have left out.

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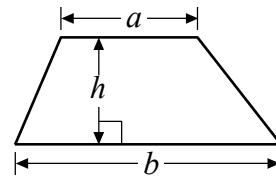
**edexcel**

Leave  
blank

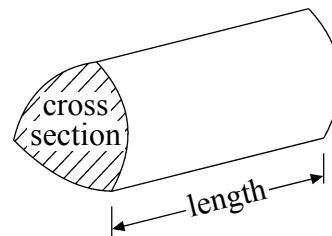
Formulae: Intermediate Tier

**You must not write on this formulae page.  
Anything you write on this formulae page will gain NO credit.**

**Area of trapezium** =  $\frac{1}{2}(a+b)h$



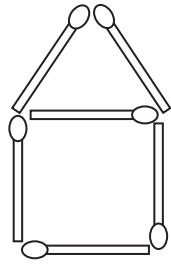
**Volume of prism** = area of cross section  $\times$  length



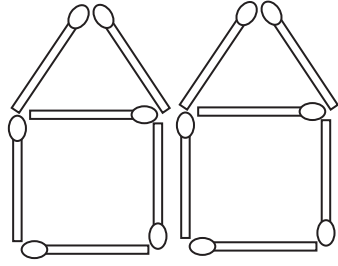


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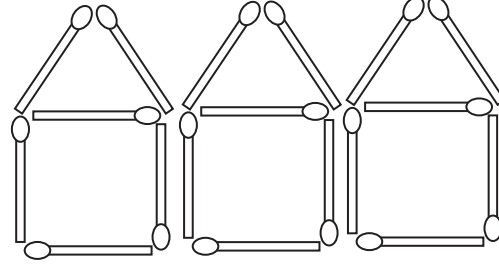
3. Here are some patterns made from matchsticks.



Pattern number 1



Pattern number 2



Pattern number 3

(a) In the space below, draw Pattern number 4

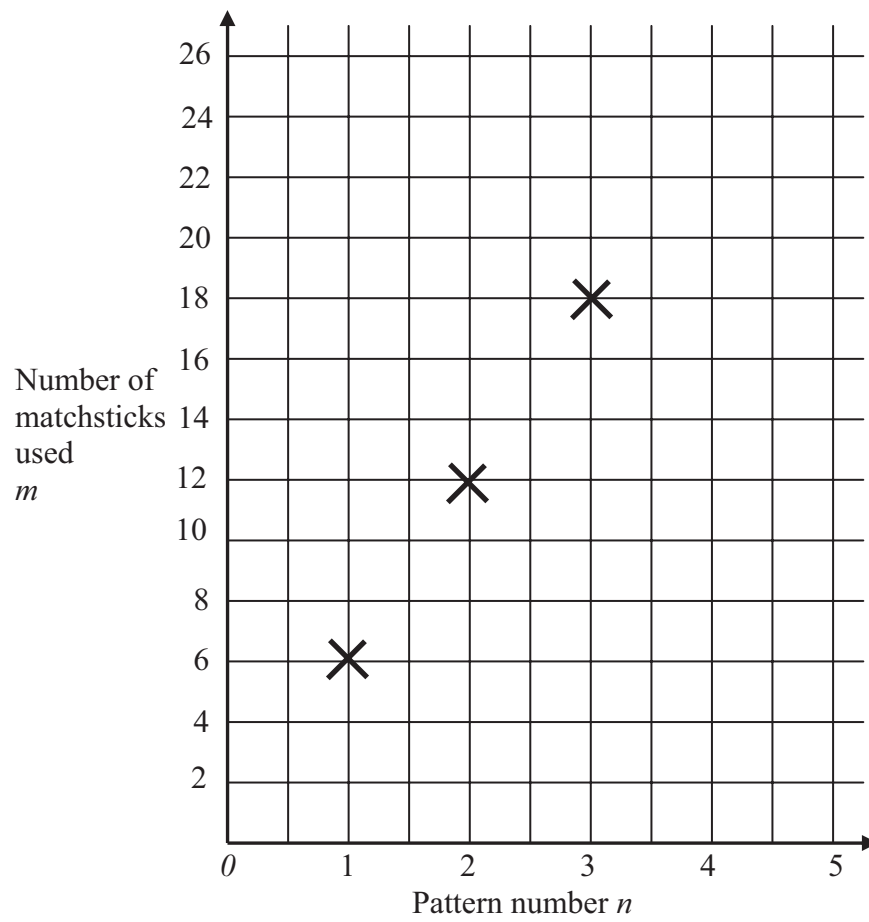
(1)



Leave blank

The graph shows the number of matchsticks  $m$  in pattern number  $n$

(b) Mark the point which shows the number of matchsticks used in Pattern number 4



(1)

(c) How many matchsticks are used in Pattern number 10?

.....  
(1)

(d) Write down a formula for  $m$  in terms of  $n$

.....  
(1)

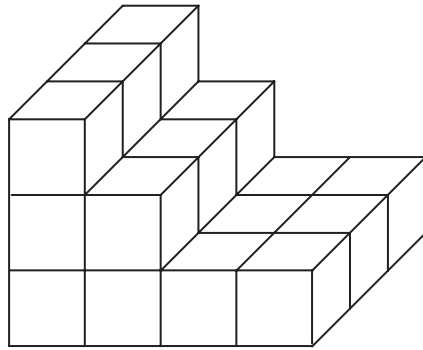
(Total 4 marks)

Q3



Leave blank

4. Work out the volume of this prism.  
It is made from centimetre cubes.



..... cm<sup>3</sup>  
**(Total 1 mark)**

**Q4**

5. Write these numbers in order of size.

Start with the smallest number.

- (i) 5, -6, -10, 2, -4

.....

- (ii)  $\frac{1}{2}$ ,  $\frac{2}{3}$ ,  $\frac{2}{5}$ ,  $\frac{3}{4}$

.....

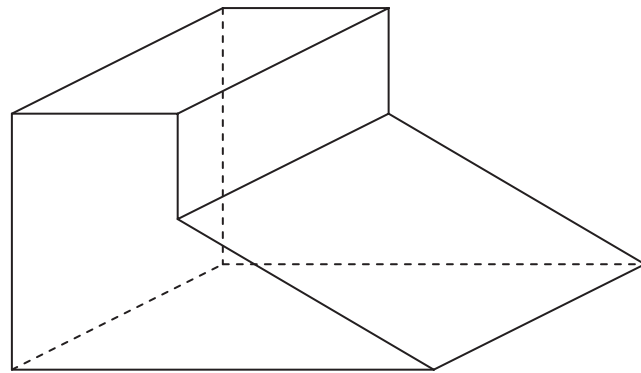
**(Total 3 marks)**

**Q5**



Leave blank

6. Here is a solid shape.



Write down the number of;

(i) faces,

..... faces

(ii) edges,

..... edges

(iii) vertices.

..... vertices

**(Total 3 marks)**

**Q6**

7. Simon drives 28 miles every day of the year.

How many miles does he drive in a year of 365 days?

..... miles

**(Total 3 marks)**

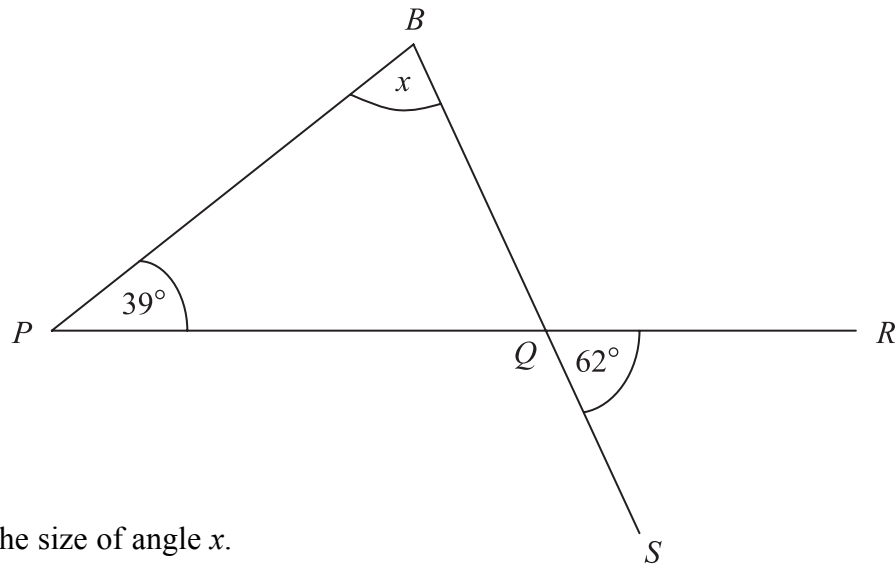
**Q7**



N 2 6 4 0 2 A 0 7 0 8

Leave blank

8.



Work out the size of angle  $x$ .

Give reasons for your answer.

.....  
.....  
.....

$x = \dots\dots\dots^\circ$

(Total 3 marks)

Q8

9.

$$\frac{3}{5} \quad \frac{3}{7} \quad \frac{3}{8} \quad \frac{3}{10} \quad \frac{3}{11}$$

Bronwyn converted each of these fractions to decimals.

Put a ring around each fraction which gave a recurring decimal.

(Total 2 marks)

Q9

**TOTAL FOR SECTION B: 25 MARKS**

**END**

