

Candidate Name	Centre Number	Candidate Number

WELSH JOINT EDUCATION COMMITTEE
ENTRY LEVEL CERTIFICATE



CYD-BWYLLGOR ADDYSG CYMRU
TYSTYSGRIF LEFEL MYNEDIAD

725/02

Entry Level Certificate

GRAPHICAL AND MATERIAL STUDIES

(Graphics)

P.M. THURSDAY, 15 March 2007

(½ Hour)

Examiner only

Total Marks	
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ADDITIONAL MATERIALS

In addition to this examination paper, you will need:

- a separate sheet of A4 paper;
- a separate sheet for use with Question 11;
- basic drawing instruments: ruler, pencil, eraser, set squares, protractor, compass;
- coloured pencils.

INSTRUCTIONS TO CANDIDATES

Write your name, centre number and candidate number in the spaces at the top of this page.

Answer **all** questions in Section A, in the spaces provided in this booklet.

Answer only **one** question from Section B, **on the separate A4 paper provided.**

If you have difficulty in reading a question, put up your hand and the teacher-in-charge will read it to you.

INFORMATION FOR CANDIDATES

Section A: **Each** question carries **five** marks.

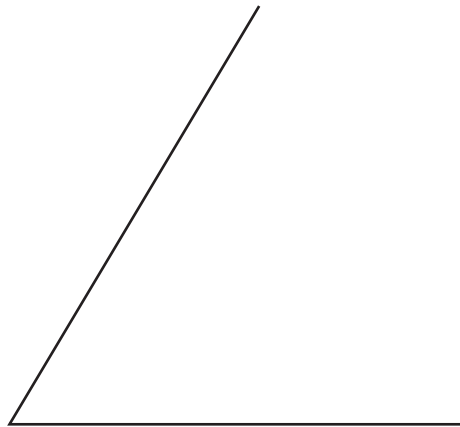
Section B: **Each** question carries **fifty** marks.

No certificate will be awarded to a candidate detected in any unfair practice during the examination.

SECTION A

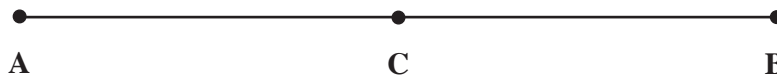
Answer **all** questions in this section in the spaces provided.

1. Using drawing instruments, bisect the angle shown below.



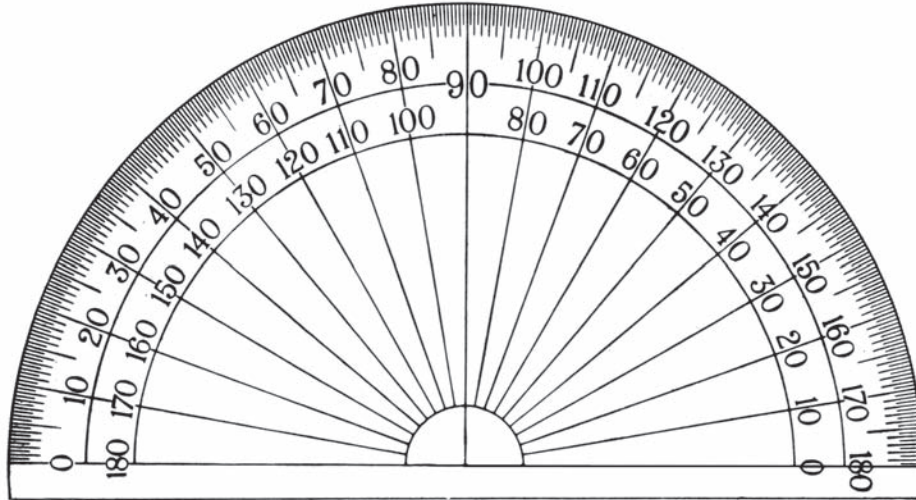
[5]

2. Using drawing instruments, construct a **perpendicular** at **point C** on the line **AB** shown below. The height of the perpendicular is to be 40 mm.



[5]

3. What is the correct name given to the drawing instrument shown below?

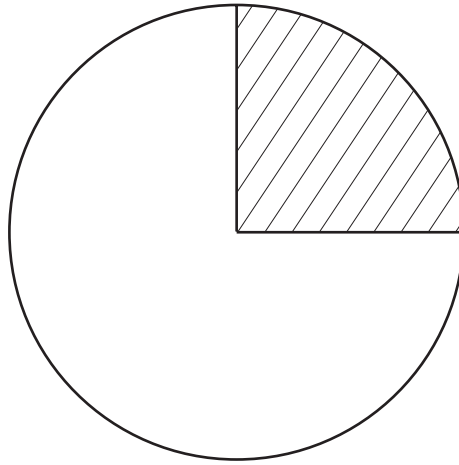


- (a) Circle template;
- (b) Compass;
- (c) Protractor;
- (d) 45° set square.

Underline the correct answer.

[5]

4. What is the correct name given to the shaded area of the circle shown below?



- (a) Radius;
(b) Arc;
(c) Semi-circle;
(d) Quadrant.

Underline the correct answer.

[5]

5. The following are all 'grades' of pencil leads: **H**, **B**, **2H**, **HB**. On the lines provided, put the pencil grades in the correct order from '**Softest**' to '**Hardest**'.

'Softest'



(a)

(b)

(c)

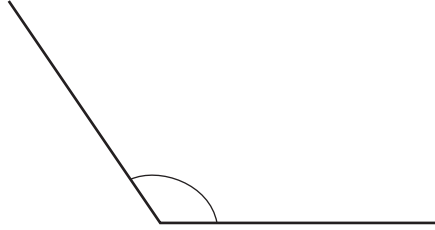
(d)

'Hardest'

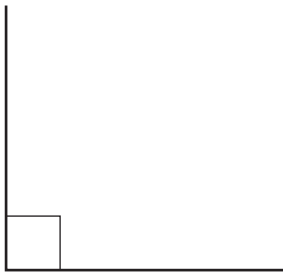
[5]

6. Which **one** (1) of the following angles shown below is **less** than 90° ?

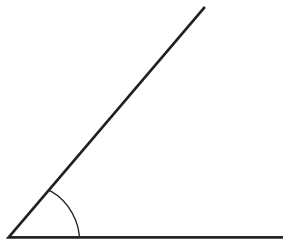
(a)



(b)



(c)



(d)



Underline the correct answer.

[5]

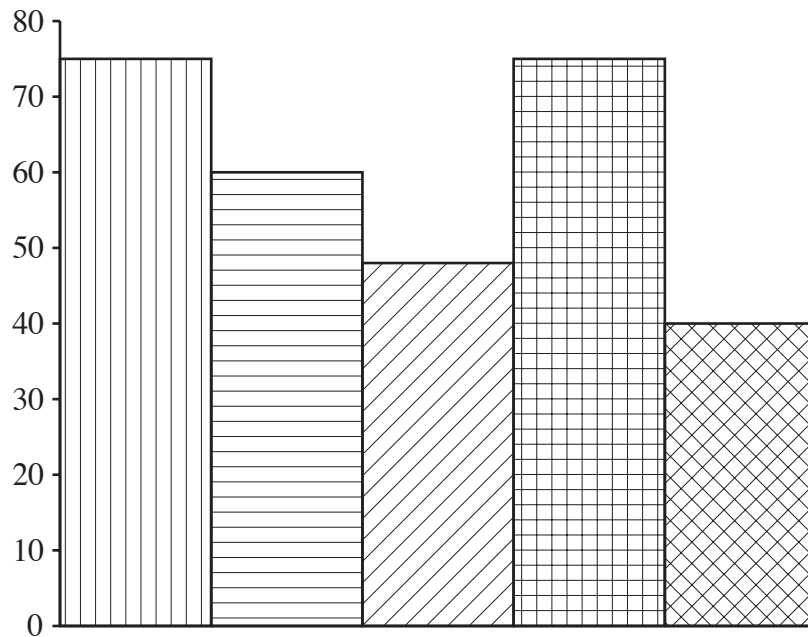
7. Which **one** (1) of the following statements is correct?

- (a) A3 paper is the same size as A4 paper;
- (b) A3 paper is twice the size of A4 paper;
- (c) A3 paper is half the size of A4 paper;
- (d) A3 paper is three times the size of A4 paper.

Underline the correct answer.

[5]

8. What is the name given to the type of drawing shown below?

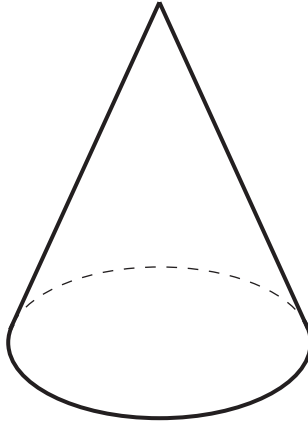


- (a) Pie chart;
- (b) Picture chart;
- (c) Flow chart;
- (d) Bar chart.

Underline the correct answer.

[5]

9. What is the correct name given to the shape shown below?



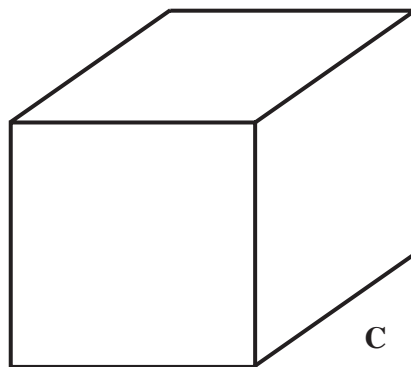
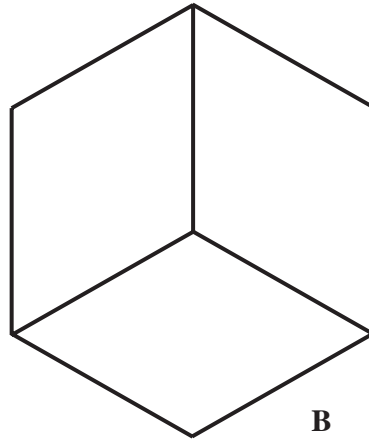
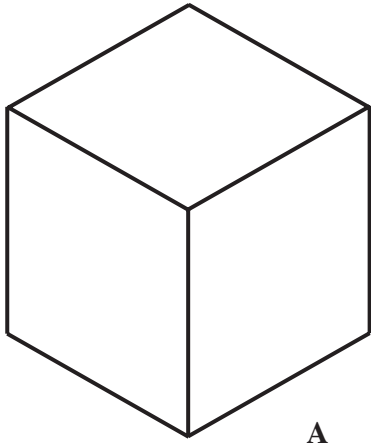
- (a) Cone;
- (b) Cube;
- (c) Pyramid;
- (d) Cylinder.

Underline the correct answer.

[5]

10. The drawings **A**, **B** and **C** show **three** (3) different views of a cube.

Which **one** (1) is in oblique projection?



Underline the correct answer.

[5]

SECTION B

There are **two** (2) questions in this section.

Only answer **one** (1) question from this section.

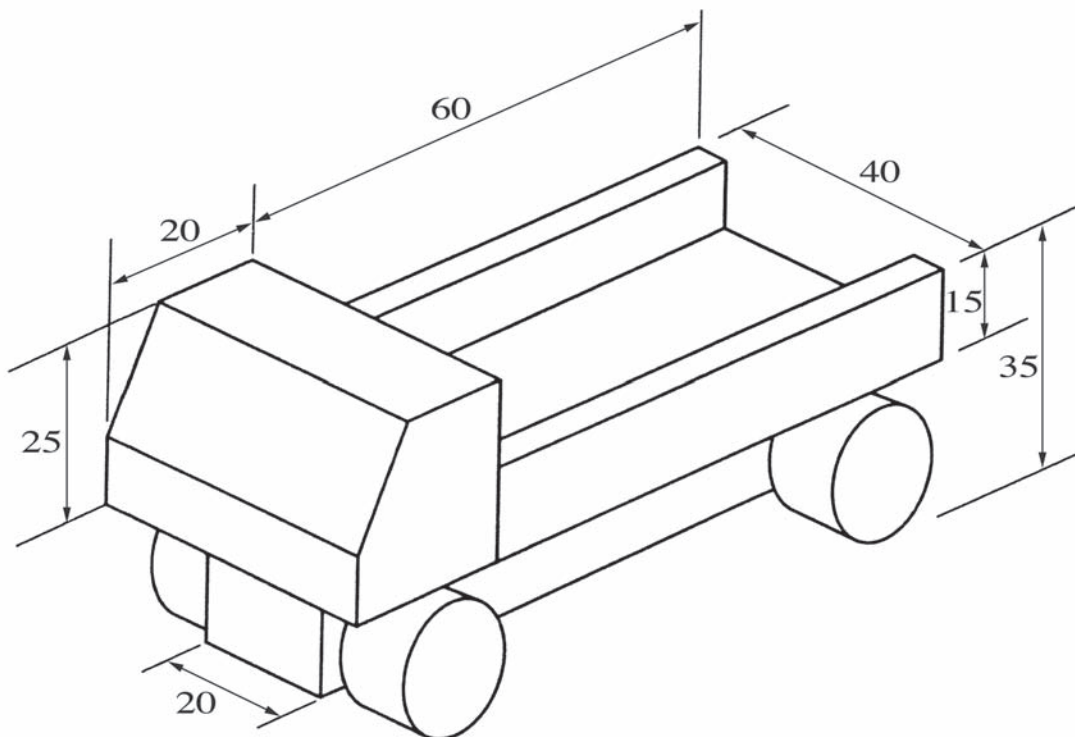
Answer **either** Question 11 or Question 12.

11. The drawing below shows a toy lorry. From this drawing produce an **orthographic** drawing of the lorry. Your drawing must include a **front view**, **side view** and a **plan, full size**. The drawing has been started for you on separate paper.

All measurements are in millimetres (mm).

Hidden detail is **not** required.

Any measurements not given are left for you to decide.



[50]

12. Draw **one** (1) of the following:

either (a) compass;

or (b) claw hammer.

It must be a presentation drawing and you **must** use **colour** and **shading**.

You **must** also use **simple notes with arrows** to explain how it works and what it is used for.

[50]