



External Assessment

NCFE Level 2 Certificate in Engineering Studies (601/4532/8)

Unit 02 Introduction to engineering drawing (L/506/3766)

Paper number: P000424

Assessment date: **Sample Paper (This is not a live paper)**

Time: 1.30pm

Task 1

Complete your details below:

Centre name		Centre number	
Learner name		Learner number	

Time allowed - 45 minutes

Instructions for Learners

- Read Task 1 carefully and make sure that you understand what you need to do to answer each question.
- You **MUST** attempt **all** of the questions in Task 1 to address all assessment criteria. You cannot achieve a Pass grade unless you meet the required standard in all of the questions.
- Write your responses to the questions in the spaces provided. If you need more space you may use extra paper.
- If you are using word processor, you **must** make sure that all of your work is printed out.
- Make sure that any printouts or extra paper is securely attached to this assessment paper and labelled clearly with:
 - your name and learner number
 - centre name and centre number
 - task and question number
- At the end of the assessment hand all documents over to your Invigilator.

Examiner use only

AC	Grade
1.1	
1.2	

You are **not** allowed to use the internet during this external assessment.

DO NOT TURN OVER UNTIL YOU ARE INSTRUCTED TO DO SO BY THE INVIGILATOR.

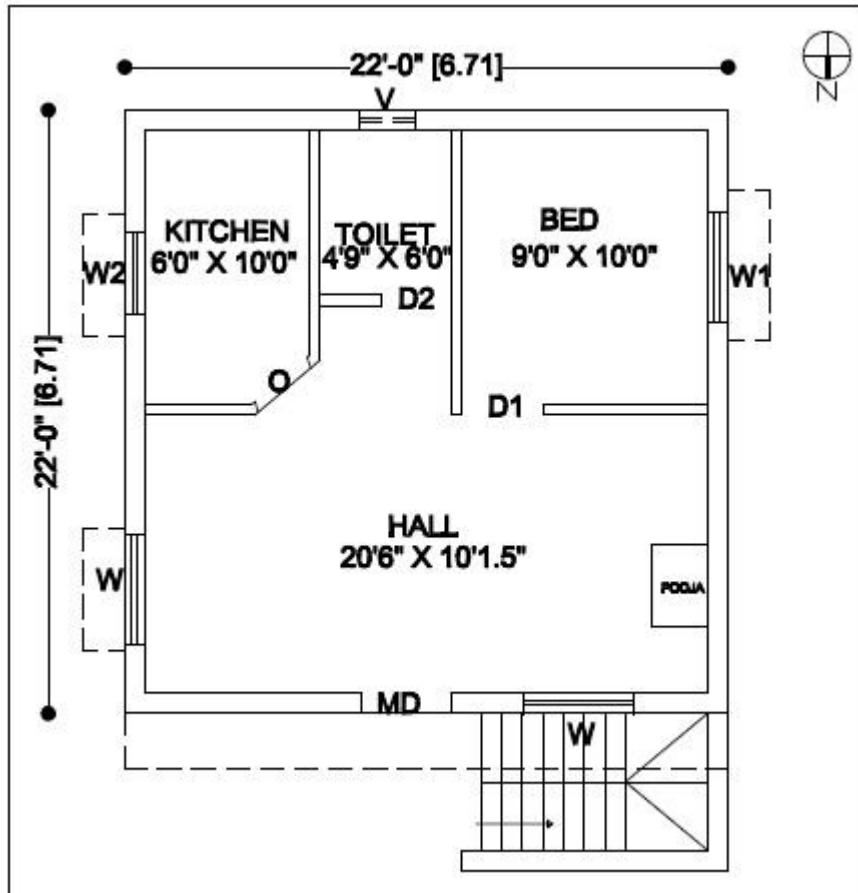
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Task 1

You **must** ensure your work in Task 1 addresses assessment criteria 1.1 and 1.2. You can refer to the assessment criteria at the end of this paper.

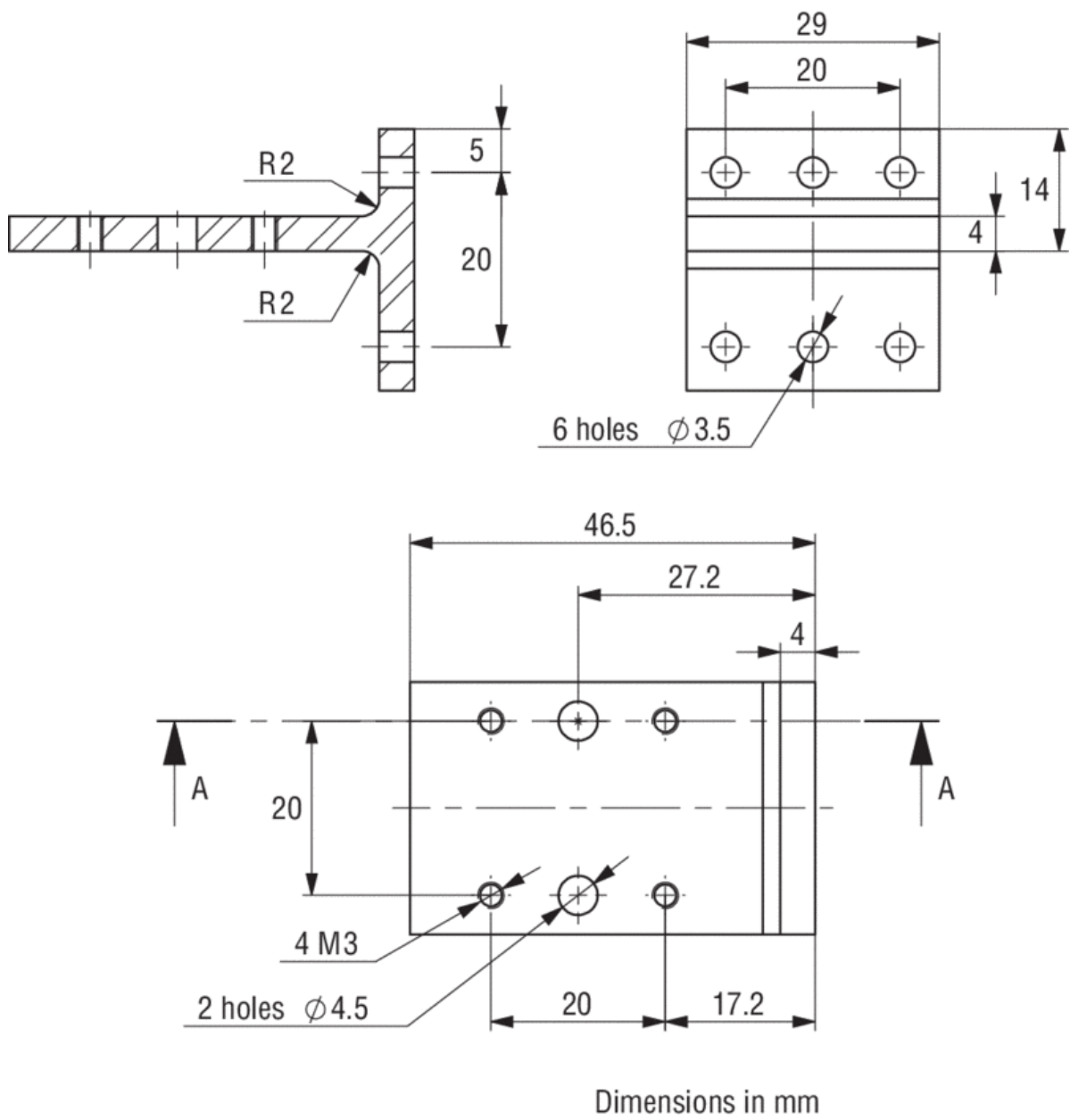
Use Figure 1 and Figure 2, to answers question 1a)

Figure 1



Please turn over

Figure 2



Q1

a) Which common **systems of measurement** are shown in Figure 1 and Figure 2?

System 1:

.....

System 2:

.....

b) Give two **units of measurement** for each of the two systems.

System 1

1:

2:

System 2

1:

2:

c) Explain why the two different systems are used in engineering drawing and why it is important for Engineers to have an understanding of both systems.

System 1:

.....

.....

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.....

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.....

.....

System 2:

.....

.....

.....

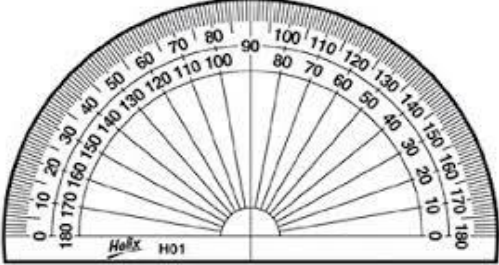
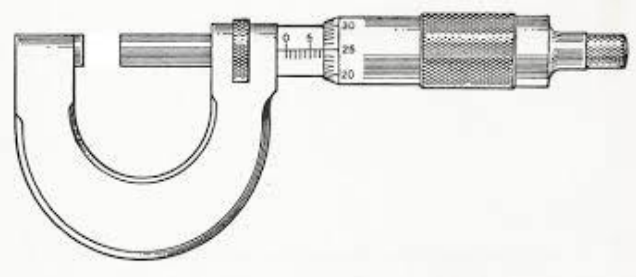
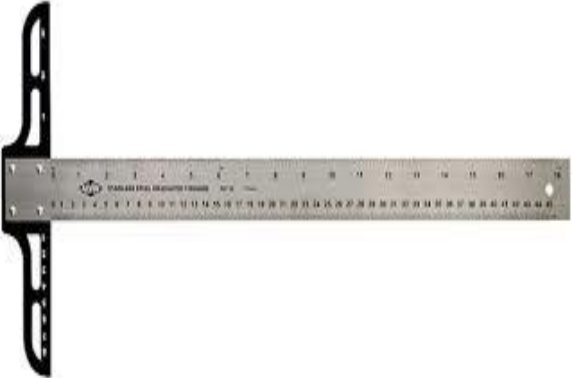
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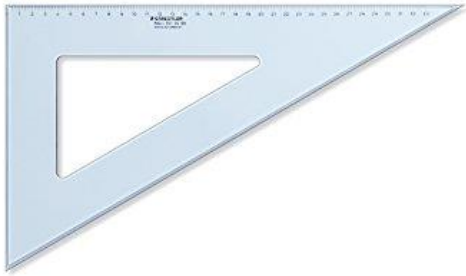
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Q2 Look at the engineering measuring devices below. Complete the table naming the device and describing in detail how it is used to plan, prepare or produce engineering drawings.

Device	Description of use in planning and producing engineering drawings
 <p>Name:</p>	
 <p>Name:</p>	
 <p>Name:</p>	



Name:



Name:



Name:

Assessment criteria

The assessment criteria 1.1 and 1.2 are detailed below. If you are aiming for a Merit or Distinction it is particularly important that you're familiar with what these grades require, as you work through the tasks.

Assessment criteria	Pass	Merit	Distinction
1.1 Distinguish between the common systems of measurement in engineering drawing	Learners will distinguish between the common systems of measurement in engineering drawing	Learners will clearly distinguish between the common systems of measurement in engineering drawing in detail	Learners will perceptively distinguish between the common systems of measurement in engineering drawing in detail
1.2 Describe how measuring devices are used in engineering drawing	Learners will describe how measuring devices are used in engineering drawing	Learners will describe in detail how measuring devices are used in engineering drawing	Learners will perceptively describe how measuring devices are used in engineering drawing

At the end of the timed external assessment you will hand in the following work to your Invigilator:

- this external assessment paper
- any extra paper you have used, securely attached.

Make sure that any extra paper is clearly labelled with:

- your name and learner number
- your centre name and centre number
- the task and question number.

Any remaining time can be spent checking your responses to Task 1.

This is the end of the assessment.

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