

**Information for Candidates** 

The marks for individual questions and the parts of questions are shown in round brackets: e.g. (2). There are 26 questions in this question paper. The total mark for this paper is 100. There are 24 pages in this question paper. Any blank pages are indicated. **Calculators may be used.** 

If your calculator does not have a  $\pi$  button, take the value of  $\pi$  to be 3.142 unless the question instructs otherwise.

## Advice to Candidates

Show all stages in any calculations.

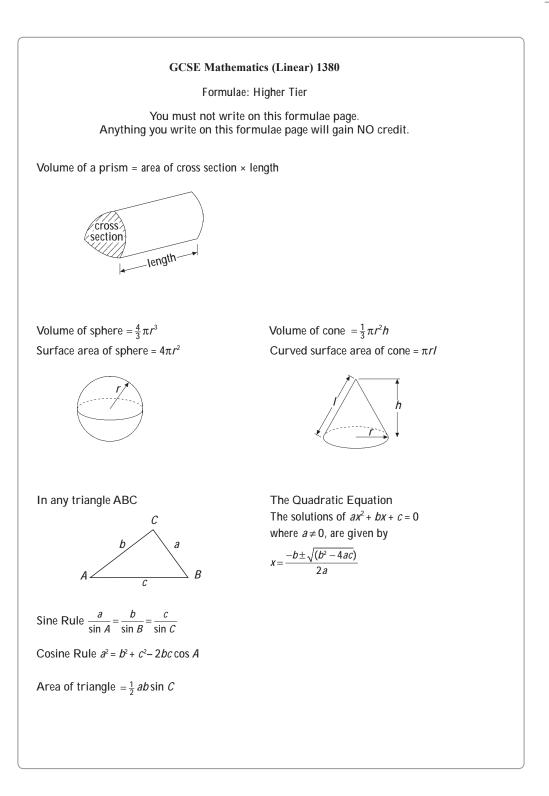
Work steadily through the paper. Do not spend too long on one question. If you cannot answer a question, leave it and attempt the next one.

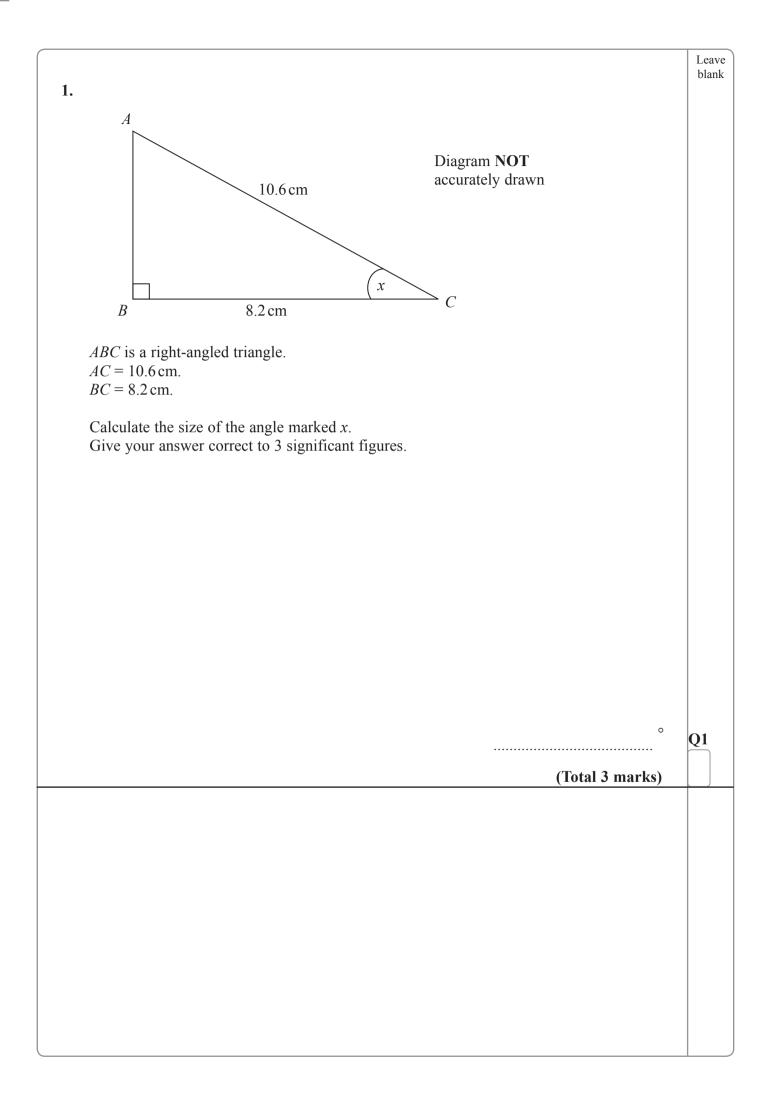
Return at the end to those you have left out.

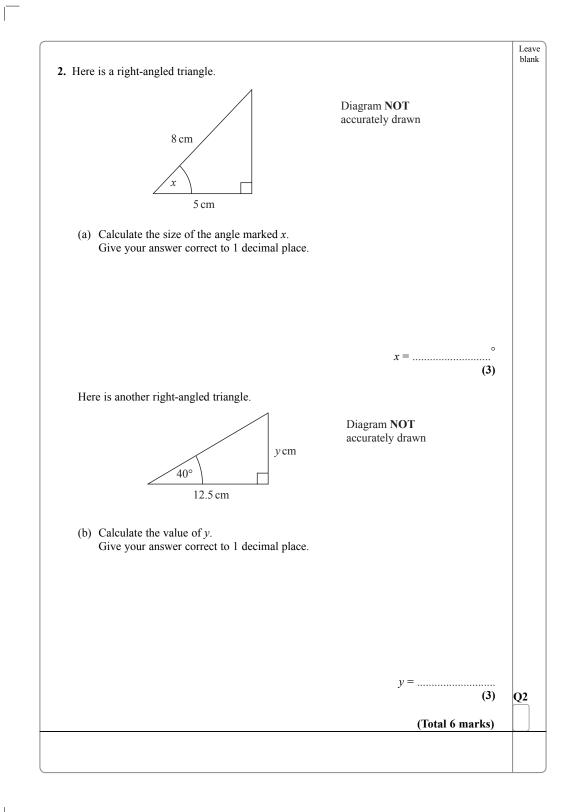
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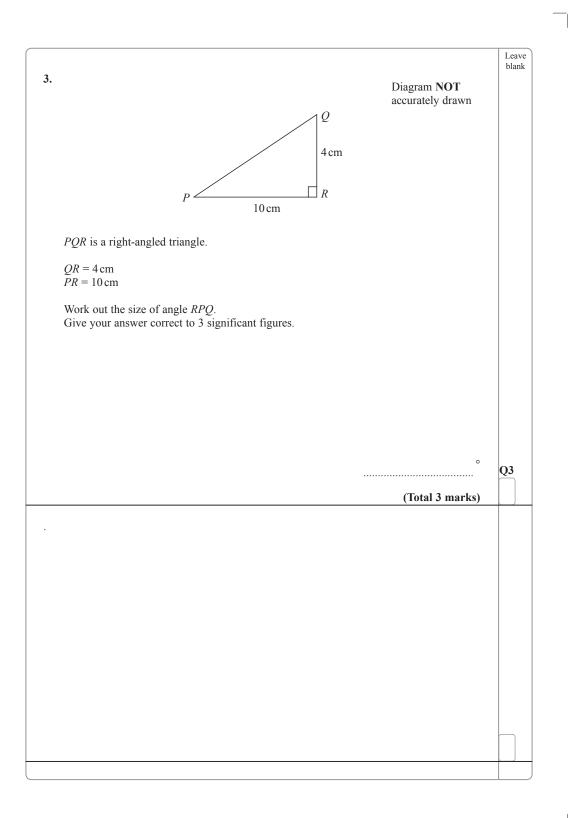


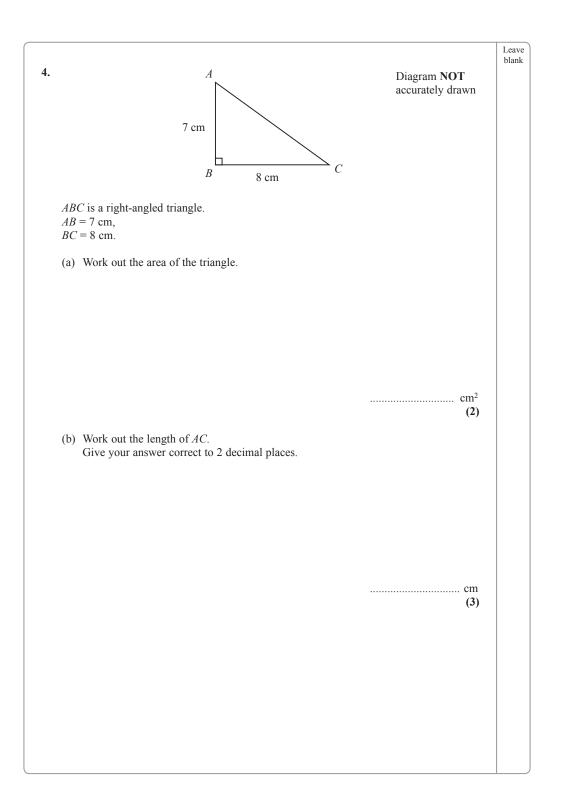


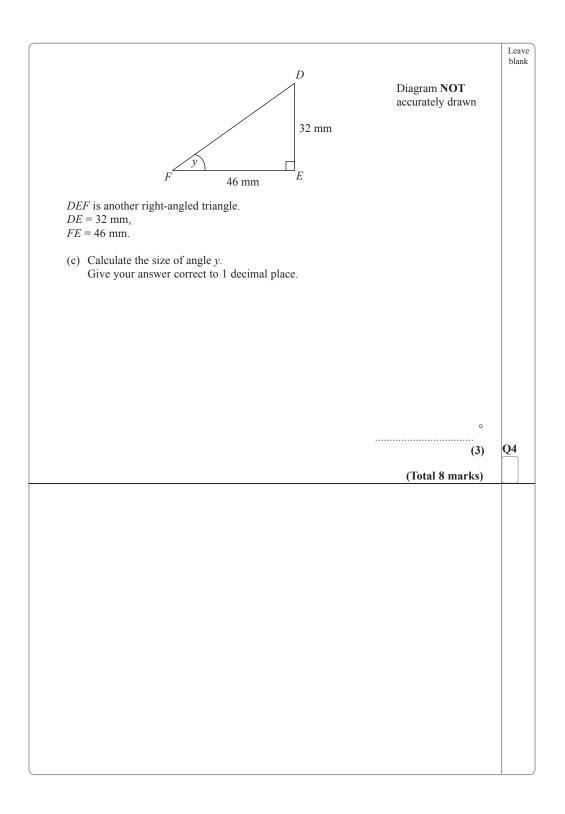


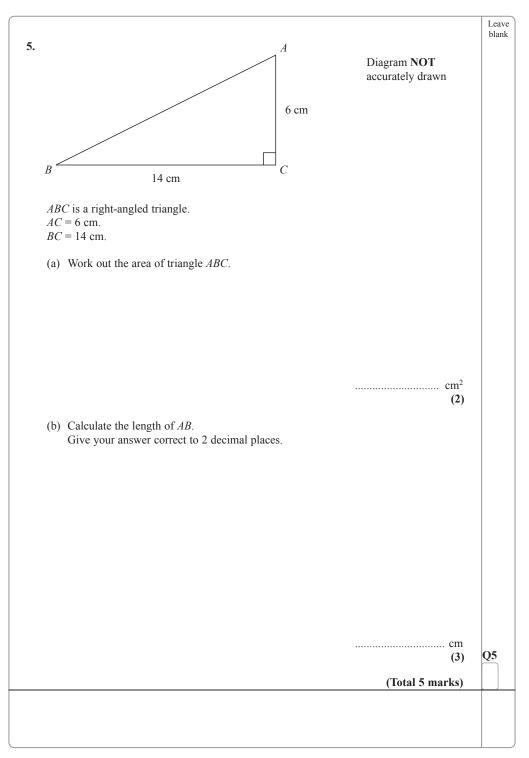


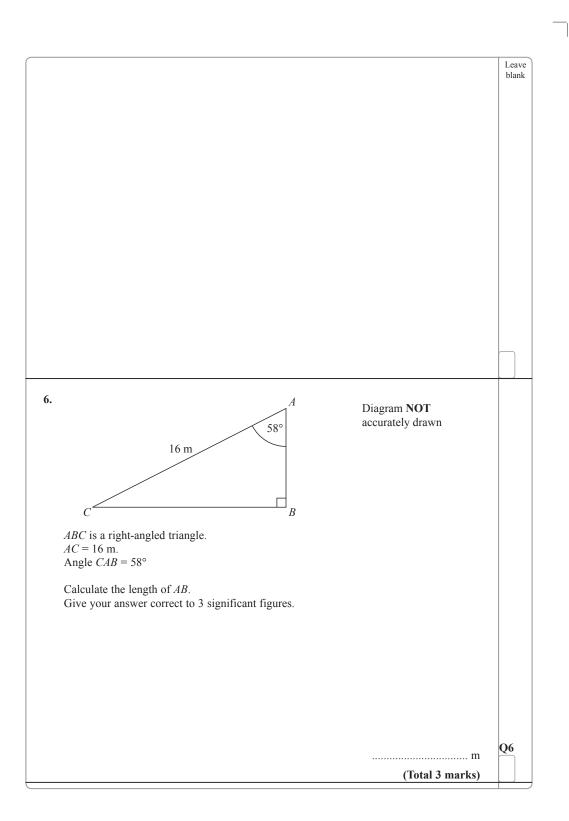


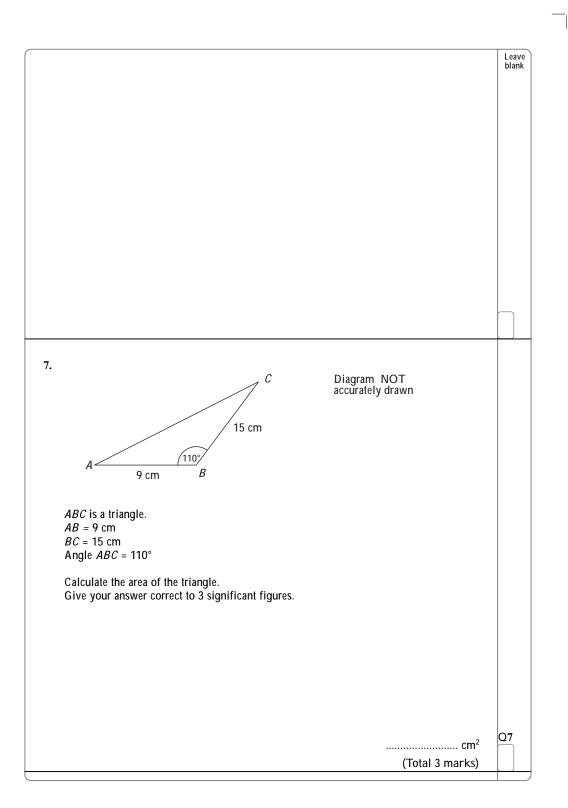


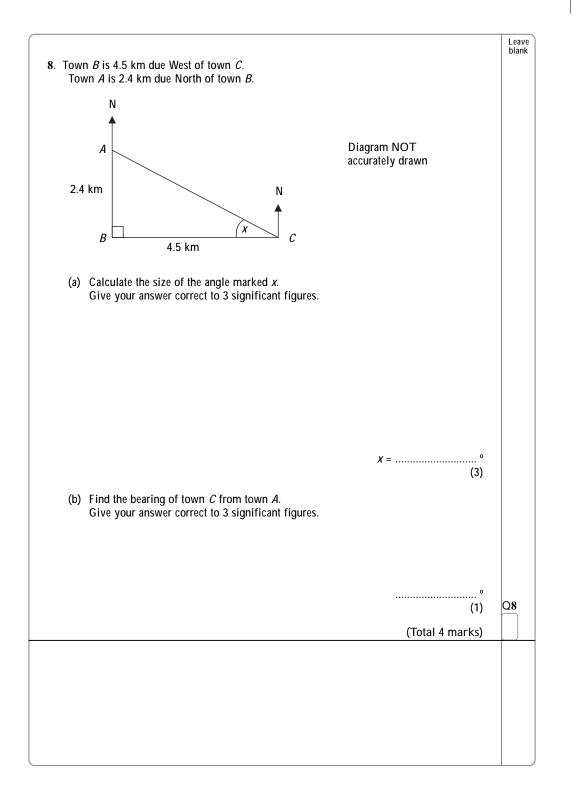


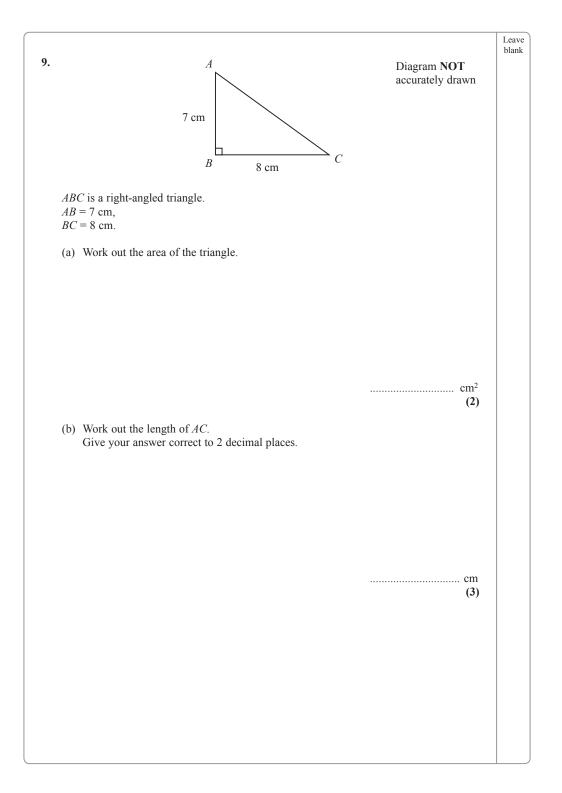


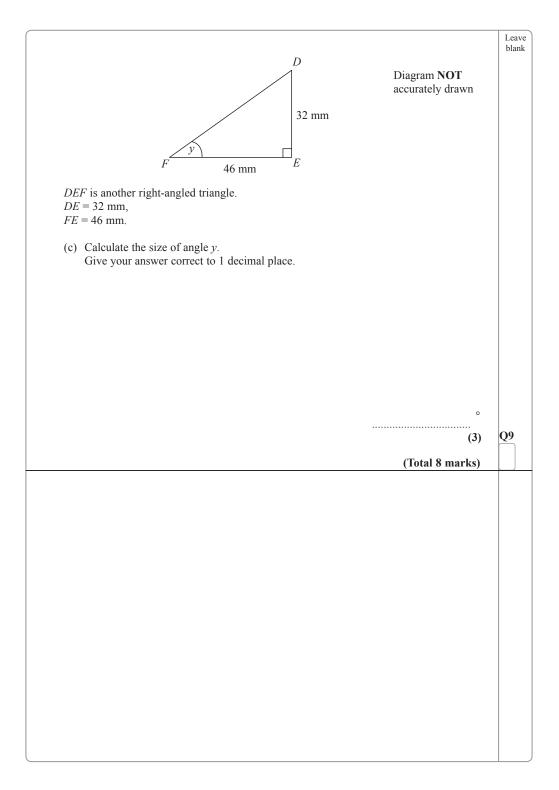


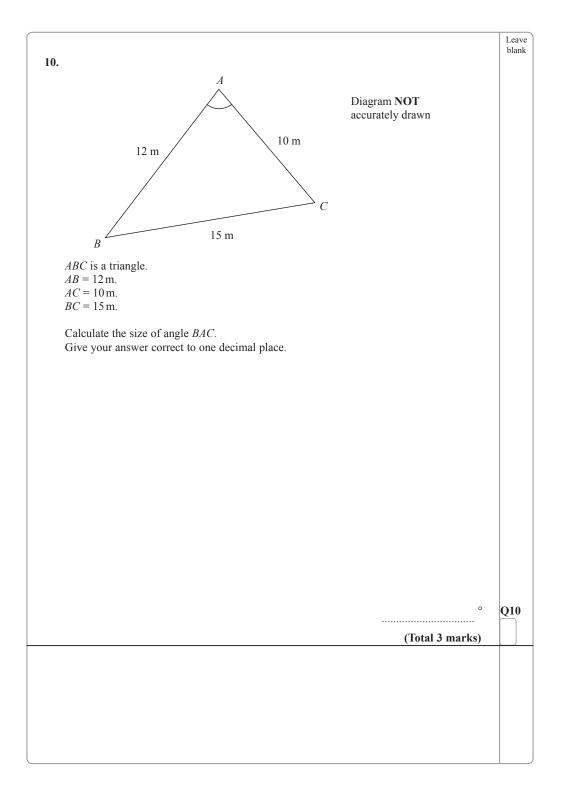


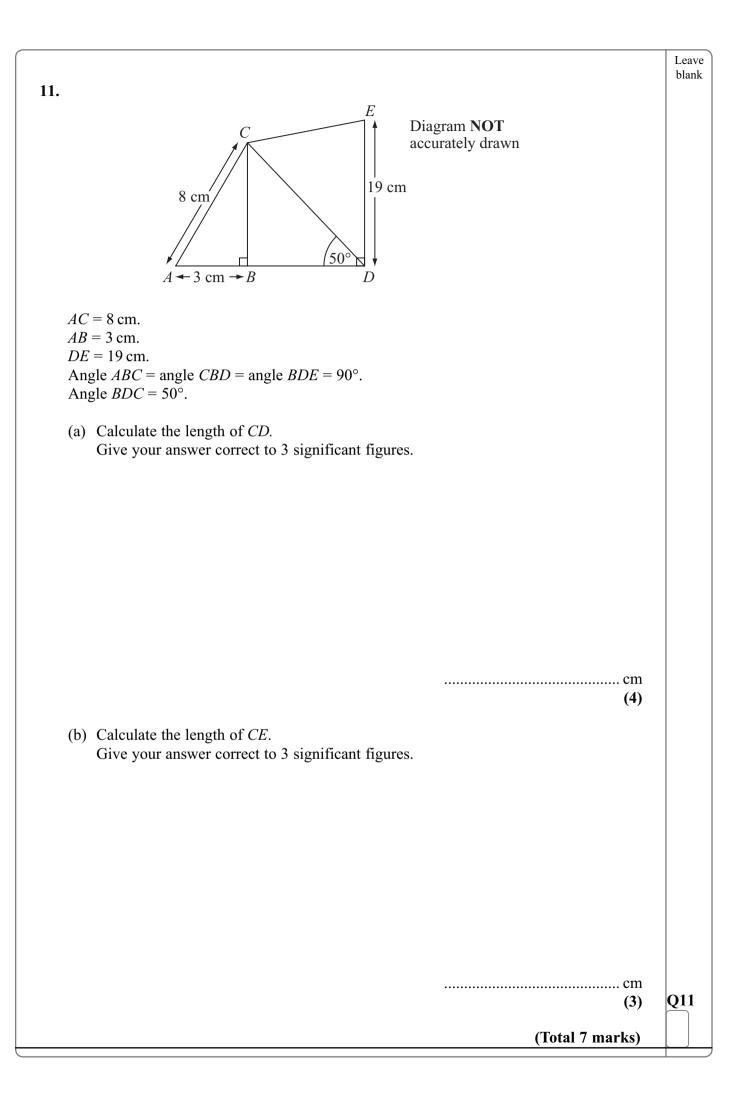












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