These questions are suitable for Higher Tier students. All questions can be done with a calculator.
3 A number, \( x \), is truncated to 2 decimal places. The error interval for \( x \) is given by

\[ 3.74 \leq x < 3.75 \]

Which of these could be the value of \( x \)?
Circle your answer.  

\[ \begin{array}{cccc}
3.7 & 3.695 & 3.754 & 3.745 \\
\end{array} \]  

[1 mark]

4 Ben rounds a number, \( p \), to two decimal places.
After rounding, \( p \) is 9.32

Write down the error interval for \( p \). 

[2 marks]

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Answer \( \underline{\quad} \leq p < \underline{\quad} \)

5 The attendance at a football match was reported as 11,200 to the nearest 100.
What was the highest possible attendance?

[1 mark]

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Answer \( \underline{\quad} \)

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13 The lengths of the sides of a trapezium are shown in the diagram, along with the accuracy of these measurements.

[Diagram with measurements: 7.12 cm to 2 decimal places, 2.283 cm to 3 decimal places, 8.00 cm to 3 significant figures]

13 (a) Work out the area of the trapezium, giving your answer to a suitable degree of accuracy.

[5 marks]

Answer

13 (b) Explain why you have given your answer to this degree of accuracy.

[1 mark]
ABC is a right-angled triangle.
Angle ABC = 90°
Angle BAC = 52° to 2 significant figures
BC = 8.2 cm to 1 decimal place

Calculate the lower bound of the length AC, to 1 decimal place.

[4 marks]