

AQA, OCR, Edexcel

GCSE

GCSE Maths

Bounds Questions

Name:

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Total Marks:

Bounds

1. The mass of a loaf of bread is given as 1.3kg to the nearest 0.1kg. Find the interval within which m , the actual mass of the bread, lies.

(2 Marks)

2. The length of a piece of string was measured as 1.67m to two decimal places. Find the interval within which l , the actual length of the string, lies.

(2 marks)

3. A farmer owns a rectangular field that is 105m in length and 50m in width. Both dimensions have been rounded to the nearest metre.
 - a) What is the maximum area of the field?
 - b) What is the minimum area of the field?

(4 Marks)

4. If $A = \frac{B}{C}$ what is the maximum and minimum value of A , if B is 100m correct to the nearest 5 m and C is 10 m correct to the nearest meter?

(3 marks)

5. A land owner owns a square field that has one side measured as 900m correct to the nearest 10m. He is looking to sell the field and has been offered £10 per square meter. What is the maximum amount of money that the land owner could get?

(3 Marks)

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6. A Circle has an area of 100cm^2 correct to the nearest 10cm^2 . Calculate the maximum radius of the circle.

(3 marks)

7. Given that $A = 3.2$ correct to 1 decimal place, give the inequality for $3A + 2$.

(4 Marks)

8. Given that $P = 1.8$ correct to 1 decimal place and $Q = 10$ correct to 1 significant figure, give the inequality for $4P + 2Q$.

(4 Marks)

9. A cuboid measures 32.3cm by 20.1cm by 14.2cm . Each dimension has been rounded to 1 decimal place. Calculate the minimum and maximum possible volumes of the cuboid.

(4 Marks)