FEEDBACK

Topic: Bounds

ACCESS MATHS

ACTION

RESPONSE

For each section, give the upper & lower bound for each question:

Fluency

1. 82 (nearest integer)
2. 35 (nearest 5)
3. 4 (1 sig. fig.)
4. 6.7 (1 d.p.)
5. 31 + 54 (nearest integer)
6. 4.6 x 7.3 (1 d.p.)
7. 680 - 170 (2 s.f.)
8. 8.43 ÷2.92 (2 d.p.)

Reasoning

1. A rectangular field has dimensions 42m by 135m. If both measurements are correct to the nearest metre, calculate the upper and lower values for the area of the field.

2. A can holds 330ml measured to the nearest ml. If I have bought a jug that holds 2 litres correct to the nearest 10ml, will a six pack of cans fit in without spilling over?

Problem Solving

A ball is thrown vertically upwards with a speed $u\ ms^{-1}$. The Height, H, to which it rises can be calculated using the formula: $H = \frac{u^2}{2g}$, where g is the acceleration due to gravity.

Calculate the highest and lowest height achieved if $u = 17.4\ ms^{-1}$ correct to 3 significant figures and $g = 9.8ms^{-2}$ correct to 2 significant figures.

R A G

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