Upper and lower bounds: Application of skills

Mr Clasper

Upper and lower bounds: Application of skills

 The mass of an orange is 70 g rounded to the nearest 10 grams.
Complete the error interval for the mass (m) of the orange.

_____<u><</u> m <_____

2. A square has sides lengths of 5.6 cm rounded to the nearest millimetre.a) What is its least possible area?

b) What is its least possible perimeter?

3.

A = 11.3 to three significant figures B = 3.4 to one decimal place

Find the upper and lower bounds for each of the calculations.

a)
$$A - B$$
 c) $A \div B$

b) AB d) 4B – A

Answers

Upper and lower bounds: Application of skills

3.

 The mass of an orange is 70 g rounded to the nearest 10 grams.
Complete the error interval for the mass (m) of the orange.

<u> 65 g < m < 75 g </u>

2. A square has sides lengths of 5.6 cm rounded to the nearest millimetre.

a) What is its least possible area?

30.8025 cm²

b) What is its least possible perimeter?

22.2 cm

A = 11.3 to three significant figures B = 3.4 to one decimal place

Find the upper and lower bounds for each of the calculations.

a) A – B	c) A ÷ B
LB 7.8	LB 3.26087
UB 8	UB 3.38806
b) AB	d) 4B – A
LB 37.6875	LB 2.05
UB 39.1575	UB 2.55