

Upper and lower bounds: Multiplying and dividing



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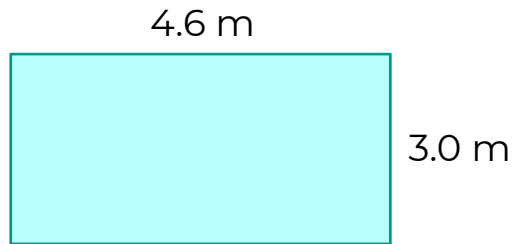
1. A pallet has a mass of 55 kg to the nearest 5 kg.

What is the total greatest possible mass of 20 of these pallets?

2. A strip of ribbon is 20 cm to the nearest 10 cm. Gracie buys some strips of Ribbon. She has at least 120 cm of ribbon.

How many strips did she buy?

3. The sides of the rectangle have been rounded to the nearest 10 centimetres.



a) Work out the upper bound for the area.

b) Work out the lower bound for the area.



Answers



Upper and lower bounds: Multiplying and dividing

1. A pallet has a mass of 55 kg to the nearest 5 kg.

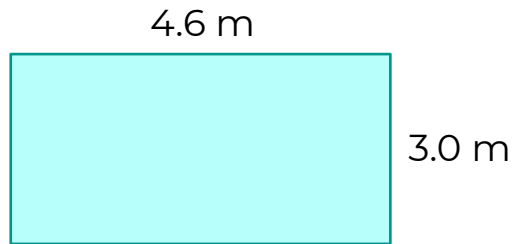
What is the total greatest possible mass of 20 of these pallets? **1150 kg**

2. A strip of ribbon is 20 cm to the nearest 10 cm. Gracie buys some strips of Ribbon. She has at least 120 cm of ribbon.

How many strips did she buy?

8 strips

3. The sides of the rectangle have been rounded to the nearest 10 centimetres.



a) Work out the upper bound for the area. **14.1825 cm^2**

b) Work out the lower bound for the area. **13.4225 cm^2**

