

### ACTION

### RESPONSE

A ship has enough food to supply 600 passengers for 3 weeks.

1. How long would the food last for one passenger?
2. How long would the food last for 300 passengers?
3. How long would the food last for 1200 passengers?



Fluency



Reasoning



Amy travels at 40 km/h, the journey takes her 3 hours.

How long will it take Jamie to make the same journey if she travels at 60 km/h?

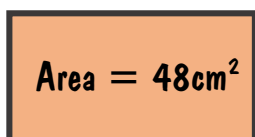
Fred assumes that a microwave's cooking time is inversely proportional to the cooking power. A pizza takes 8 minutes on 400 watts, how long will it take on 600 watts? How about 200 watts?

Problem Solving



A rectangle has an area  $48\text{cm}^2$ .

Width



Length

Explain why the length of the rectangle is inversely proportional to the width.

The length is 1cm when the width is 48cm. Calculate the width when the

length is (a) 4cm (b) 6cm (c) 8cm



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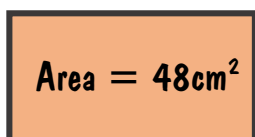
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