

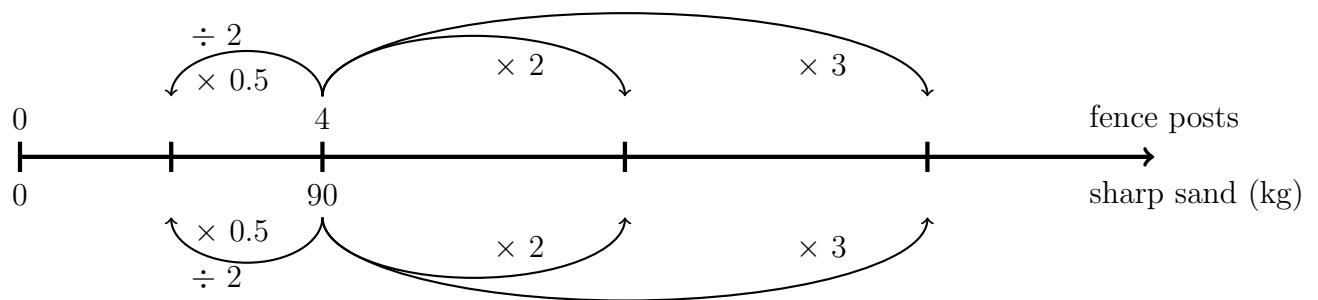
1. Here is the list of ingredients for making concrete mix for 4 fence posts.

<b>Concrete Mix</b>		
Ingredients to set 4 fence posts		
50	kg	cement
90	kg	sharp sand
180	kg	gravel
25	litres	water

Michalina makes concrete for 6 posts.

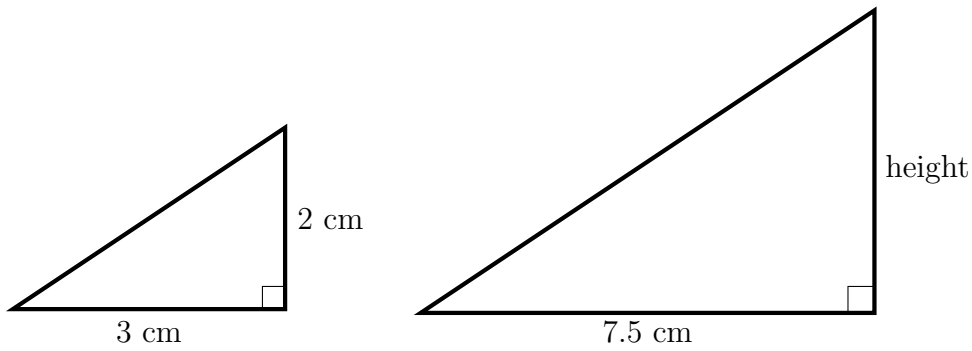
Work out how much sharp sand she uses.

You may use this proportional line.



..... kg

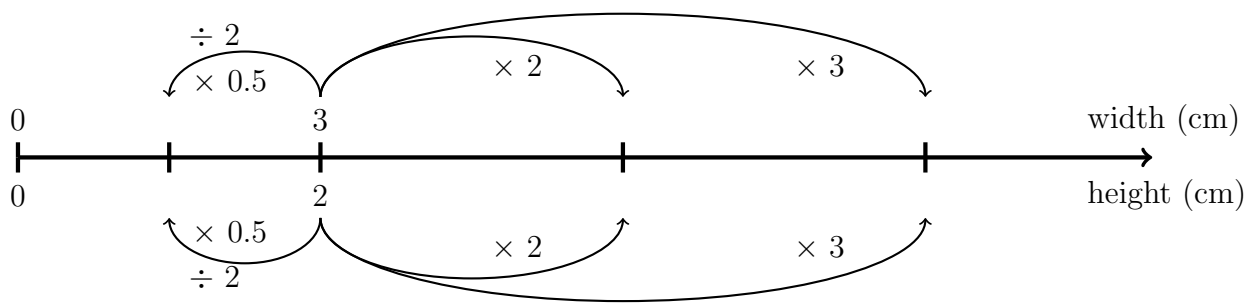
2. Here are two similar right-angled triangles.



Diagrams NOT accurately drawn

Work out the height, in centimetres, of the larger triangle.

You may use this proportional line.



..... cm

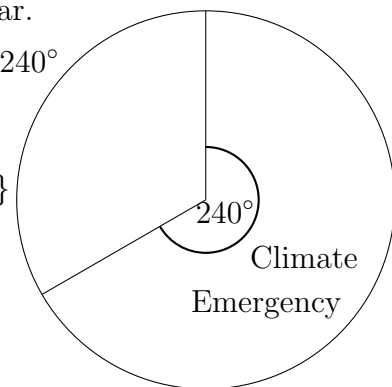
3. In a survey young-adults were asked about their greatest fear for their future.

90 young people said the climate emergency was their greatest fear.

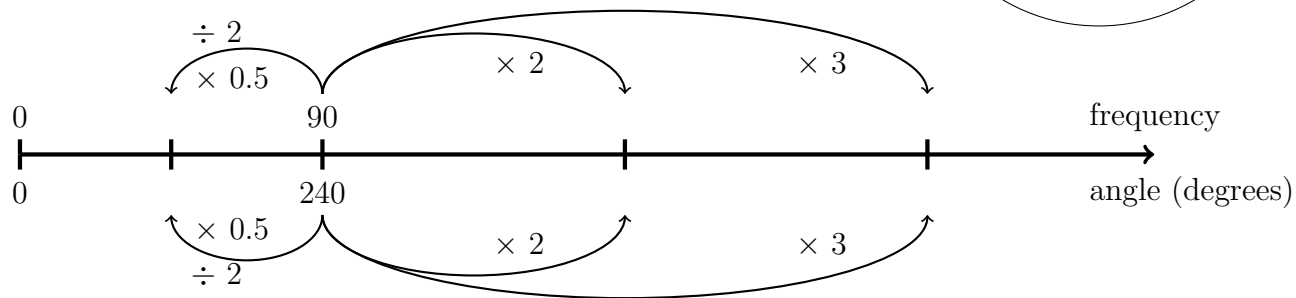
The angle in the pie chart representing the climate emergency is  $240^\circ$

How many young people were in the survey?

{FYI All the young people in the survey are represented by  $360^\circ$ }



You may use this proportional line.



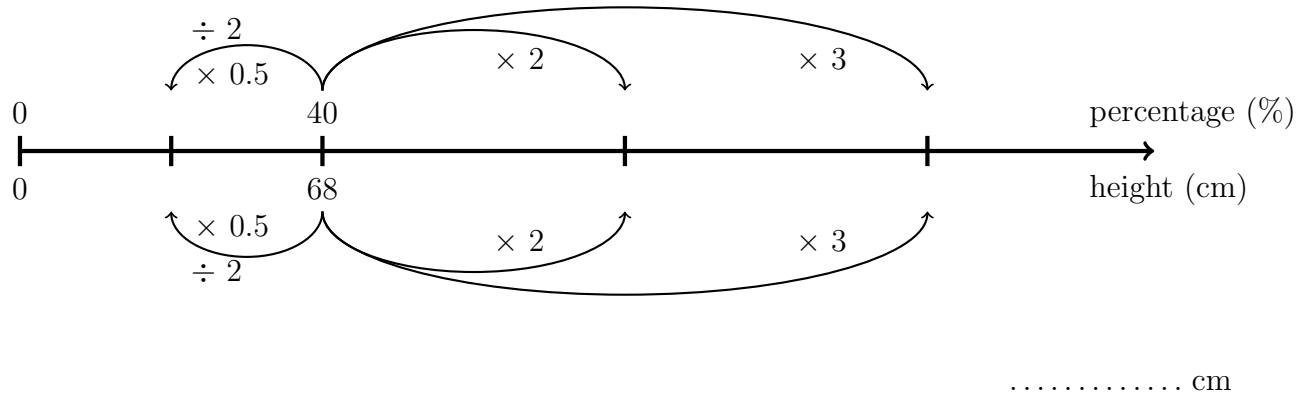
3. ....

4. When I was aged 7 years old, I was 68 cm high.

This was 40% of my adult height.

Write down my adult height. {F.Y.I. My adult height is 100%}

You may use this proportional line.

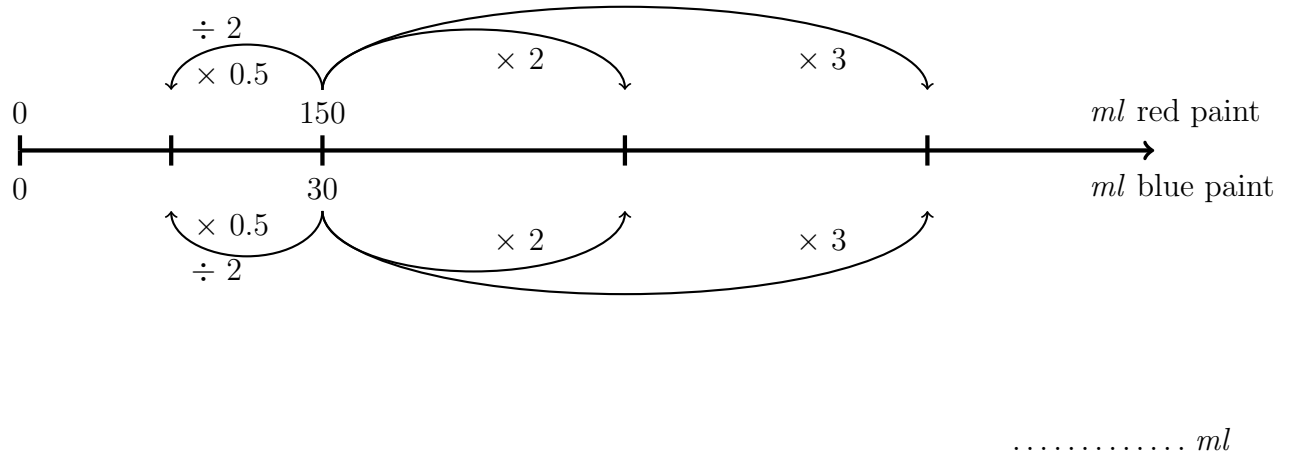


5. Blood red paint is made by mixing 150 ml of red paint with 30 ml of blue paint.

Gemma has 225 millilitres of red paint.

How many millilitres of blue paint should she use to make blood red?

You may use this proportional line.



## Answers

1. 135

2. 5

3. 135

4. 170

5. 45