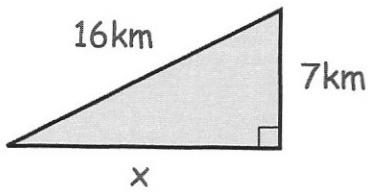


Find the area of the semi-circle.  
Leave your answer in terms of  $\pi$ .

$$\frac{1}{2} (\pi \times 8^2)$$

$$= 32\pi \text{ cm}^2$$



Calculate x  
Give your answer to 2 decimal places.

$$x^2 + 7^2 = 16^2$$

$$x^2 + 49 = 256$$

$$x^2 = 207$$

$$x = 14.39 \text{ km to 2dp}$$

Mass	Frequency	$fx$
$20 < m \leq 25$	12	270
$25 < m \leq 30$	24	660
$30 < m \leq 35$	17	552.5
$35 < m \leq 40$	15	562.5
$40 < m \leq 45$	4	170
	72	2215

Calculate an estimate for the mean.

$$2215 \div 72$$

$$30.76 \text{ to 2dp}$$

Work out

$$(9 \times 10^4)^2 \quad 81 \times 10^8$$

$$8.1 \times 10^9$$

At a show  
4 adult tickets and 1 child ticket cost £33  
2 adult tickets and 7 child tickets cost £36  
Work out the cost of 10 adult tickets and 20 child tickets.

$$4x + y = 33$$

$$2x + 7y = 36$$

$$28x + 7y = 231$$

$$2x + 7y = 36$$


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$$26x = 195$$

$$x = 7.5$$

$$30 + y = 33$$

$$y = 3$$

$$75 + 60 = \text{£}135$$