

8th October



Corbettmaths

Martin truncates a number,  $y$ , to two decimal places.

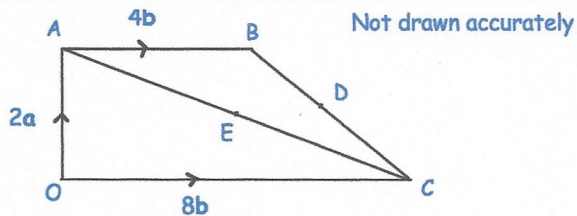
The result is 8.04

Write down the error interval for  $y$

$$8.04 \leq y < 8.05$$

or

$$8.04 < y < 8.05$$



$$\vec{OA} = 2\mathbf{a} \quad \vec{AB} = 4\mathbf{b} \quad \text{and} \quad \vec{OC} = 8\mathbf{b}$$

Point D is the midpoint of BC.  
Point E is the midpoint of AC.

Write these vectors in terms of  $\mathbf{a}$  and  $\mathbf{b}$ .

$$\vec{AC}$$

$$-2\mathbf{a} + 8\mathbf{b}$$

$$\vec{AE}$$

$$-\mathbf{a} + 4\mathbf{b}$$

The number of visitors to a museum in 2014 was  $6.2 \times 10^5$   
In 2015, the museum had  $7.8 \times 10^5$  visitors

Calculate the percentage increase.

$$\frac{(7.8 \times 10^5) - (6.2 \times 10^5)}{6.2 \times 10^5} \times 100$$

$$25.806\%$$

Make  $x$  the subject

$$v^2 = u^2 + 2ax$$

$$v^2 - u^2 = 2ax$$

$$x = \frac{v^2 - u^2}{2a}$$