



Find the point where the straight line $3x + 4y = 24$ crosses the x-axis.

$$y = 0$$

$$3x = 24$$

$$x = 8$$

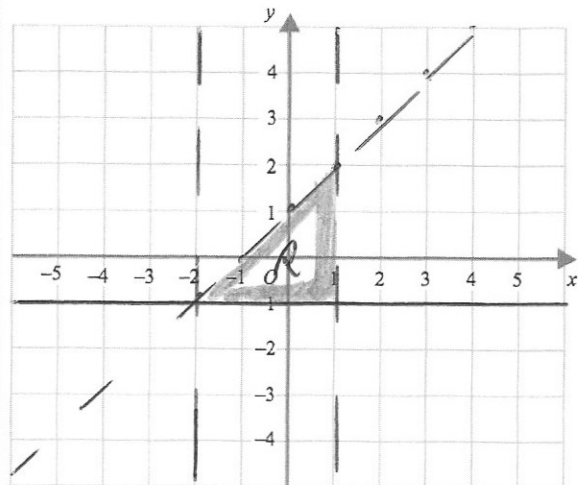
$$(8, 0)$$

Show the region which satisfies

$$-2 < x < 1$$

$$y \geq -1$$

$$y < x + 1$$



$$(\sqrt{2})^a = 4\sqrt{2}$$

Find the value of a

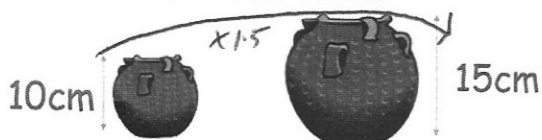
Length (cm)	Frequency	$f \times x$
$0 < L \leq 10$	5×3	15
$10 < L \leq 20$	15×12	180
$20 < L \leq 30$	25×14	350
$30 < L \leq 40$	35×9	315
$40 < L \leq 50$	45×2	90
	40	950

Calculate an estimate of the mean

$$950 \div 40$$

$$23.75 \text{ cm}$$

Here are two similar vases.



The small vase holds 700ml of water.
How much does the larger vase hold?

$$10 \times 1.5 = 15$$

$$700 \times 1.5^3 = 2362.5 \text{ ml}$$

$$2.3625 \text{ Litres}$$