

**2** An image has a 16-bit colour depth and a resolution of  $1000 \times 1750$  pixels.

**(a)** State what is meant by a 16-bit colour depth.

.....  
..... [1]

**(b)** The resolution of the image is changed to  $750 \times 1500$  pixels.

Give the effect this will have on the file size of the image.

.....  
..... [1]