$1128=27$ denys to go l

3


Shade the region inside the rectangle which is the locus of all points that are
(i) greater than 4.5 cm from C
and (ii) nearer to B than D .
Find perpendicular of line BD

further then
4.5 cm


Nearer B than D


Sketches of $y=a^{x}, y=b^{x}, y=c^{x}, y=d^{x}$ are drawn above.
(a) $a$ and $b$ are numbers. One has the value 2 and the other has the value 3

Which is which?

$$
\text { Answer } a=3, b=2
$$

(b) Write down the value of $c$ Answer $c=1 \quad[1]$
(c) Estimate the value of $d$ Answer $d=0 \cdot \mathrm{~T}_{[1]}$
$1^{x}$

$$
1^{\text {any ming }}=1
$$

d must be less than 1 keeps getting smaller

