A storage unit, built in the shape of a cuboid, is shown.


It has length $(x+7)$ metres, breadth $x$ metres and height 2 metres.
The volume of this unit is 45 cubic metres.
(a) Show that $2 x^{2}+14 x-45=0$.
(b) Calculate $x$, the breadth of the storage unit.

Give your answer correct to 1 decimal place.

Answers:
(a) Use the dimensions of the cuboid to find an expression for the volume. Then rearrange it into the required form.
(b) $\quad x=2.4$

