Use the diagrams to explain why $1 \mathrm{~cm}^{3}=1,000 \mathrm{~mm}^{3}$

$\qquad$
$\qquad$
$\qquad$
(2)

a) Find the volume of the cube in $\mathrm{m}^{3}$

b) Find the volume of the cube in $\mathrm{cm}^{3}$

c)

Complete the statement.
Work out the volume of each cuboid.
Give your answers in both of the stated units.

c)


b)

d)


4) Complete the conversions.
a) $1 \mathrm{~cm}^{3}=$ $\square$
b) $7.5 \mathrm{~cm}^{3}=$ $\square$ $\mathrm{mm}^{3}$ $\square$
c) $1 \mathrm{~m}^{3}=$ $\square$ $\mathrm{cm}^{3}$ $\square$
d) $0.35 \mathrm{~m}^{3}=$ $\square$ $\mathrm{cm}^{3}$ $\square$ $\mathrm{cm}^{3}$

5
Complete the conversions.
a) $2,000,000 \mathrm{~cm}^{3}=$ $\square$ $600,000 \mathrm{~cm}^{3}=$ $\square$
b) $15,000,000 \mathrm{~cm}^{3}=$ $\square$ $\mathrm{m}^{3} \quad 10,000 \mathrm{~cm}^{3}=$ $\square$
c) $50,000 \mathrm{~mm}^{3}=$ $\square$ $\mathrm{cm}^{3}$ $\square$ $\mathrm{cm}^{3}$
a) Put these volumes in order of size, starting with the smallest. Show workings to justify your answer.
b)


Do you agree with Alex? $\qquad$
Show workings to justify your answer.
$1 \mathrm{~m}^{3}=1,000$ litres
Is $2,000,000 \mathrm{~mm}^{3}$ more or less than 1 litre? Show workings to justify your answer.
a) Do you agree with Jack? Show workings to justify your answer.

Show workings justify your answer.

b) Work out the volumes of these cuboids and put them in ascending order.
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$\qquad$
$\qquad$

