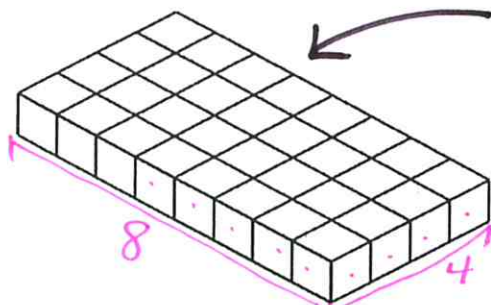


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2.) 6.G.A.2 Heba is packing a box like the one below.

★★

Each cube is defined by the fractional edge length of $\frac{1}{4}$ ft.



1st Find the volume with fractional edge length

$$8 \times \frac{1}{4} = \frac{8}{4}$$

$$4 \times \frac{1}{4} = \frac{4}{4}$$

$$1 \times \frac{1}{4} = \frac{1}{4}$$

$$V = \frac{8}{4} \times \frac{4}{4} \times \frac{1}{4} = \frac{32}{64} = \frac{1}{2}$$

(Keep-Change-Flip)

Then $20 \div \frac{1}{2}$ (answer from above)

Heba has a carrying case that holds 20 ft³. What is the maximum number of boxes she can put in her carrying case? (How many of those boxes will fit in her carrying case? Divide the size of the carrying case by the volume of the rectangular prism with fractional edge lengths.)

a.) 10

b.) 20

c.) 40

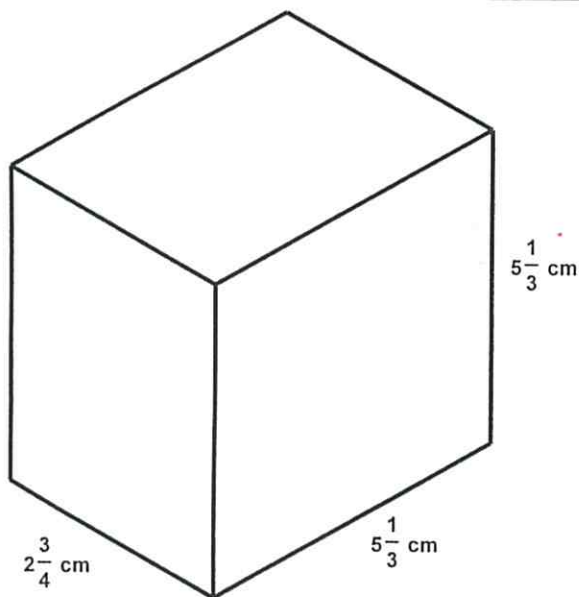
d.) 50

KCF

$$\frac{20}{1} \times \frac{2}{1} = \frac{40}{1} = 40$$

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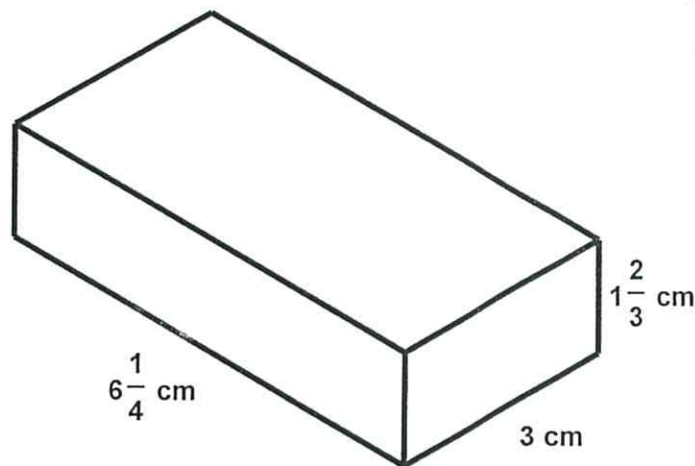
3.) Find the volume of these two rectangular prisms. Show your work. You may use your calculator, but you will need to show what your thinking was.



$$V = l \cdot w \cdot h$$

$$2\frac{3}{4} \cdot 5\frac{1}{3} \cdot 5\frac{1}{3}$$

$$\frac{11}{4} \cdot \frac{16}{3} \cdot \frac{16}{3} = \frac{2816}{36} = 78\frac{2}{9}$$



$$V = l \cdot w \cdot h$$

$$6\frac{1}{4} \cdot 3 \cdot 1\frac{2}{3}$$

$$\frac{25}{4} \cdot \frac{3}{1} \cdot \frac{5}{3} = \frac{375}{12} = 31\frac{1}{4}$$