*may use a calculator

Common Assessment Review for 6.G.A.2 and 6.G.A.4
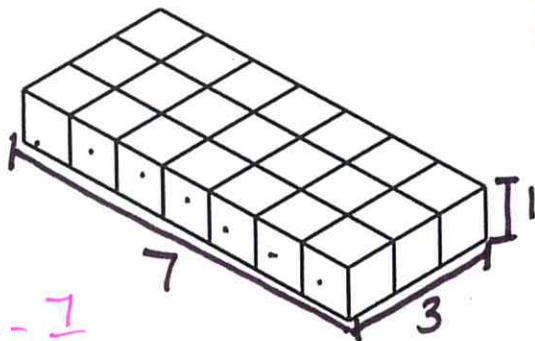
NAME: _____

Page 25,26

$V = l \cdot w \cdot h$

1.) **6.G.A.2** Which of the rectangular prisms have a volume of $1\frac{3}{4}$ units³, given each cube is defined by the fractional edge length of $\frac{1}{4}$ inch? Choose **all** correct answers.
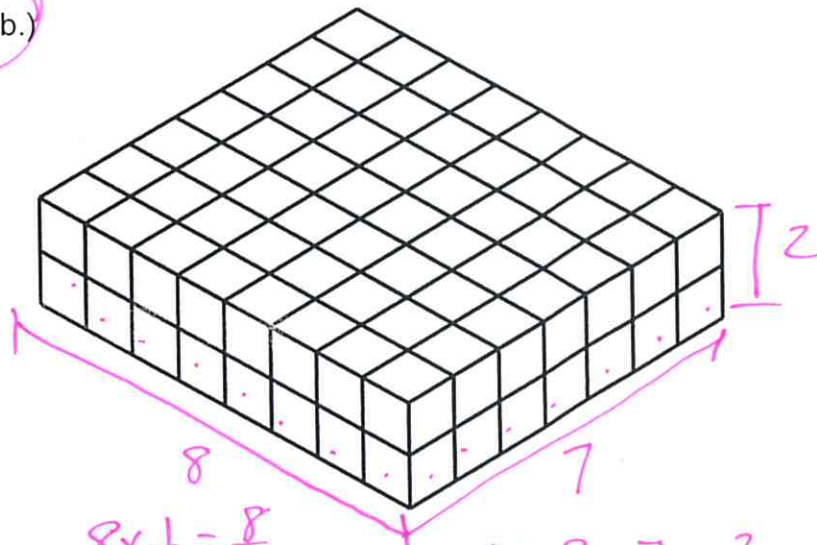
a.) ✗

7   3   1

$\frac{7}{1} \times \frac{1}{4} = \frac{7}{4}$

$\frac{3}{1} \times \frac{1}{4} = \frac{3}{4}$

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

$V = \frac{7}{4} \times \frac{3}{4} \times \frac{1}{4} = \frac{21}{64}$

b.) (circled)

8   7   2

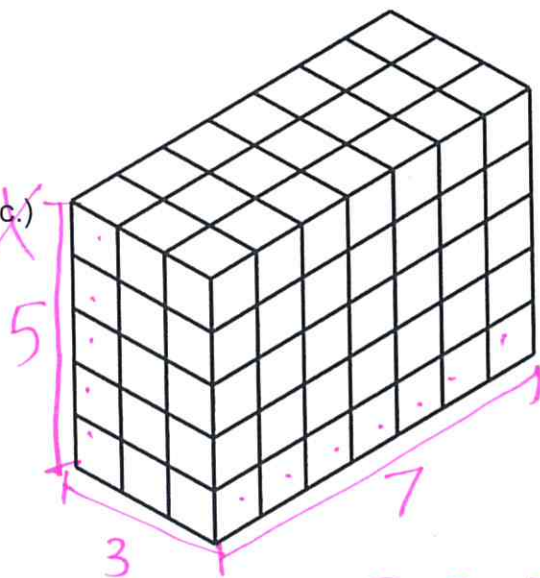$8 \times \frac{1}{4} = \frac{8}{4}$

$7 \times \frac{1}{4} \quad \frac{7}{4}$

$2 \times \frac{1}{4} \quad \frac{2}{4}$

$V = \frac{8}{4} \times \frac{7}{4} \times \frac{2}{4}$
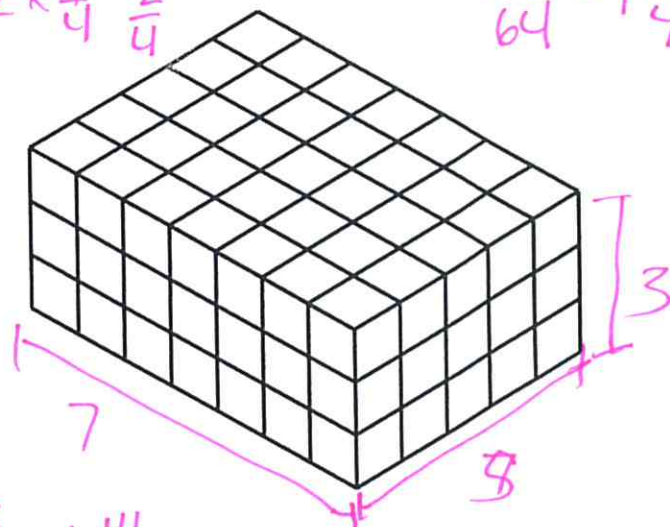
$\frac{112}{64} = 1\frac{3}{4}$

c.) ✗

5   3   7

$5 \times \frac{1}{4} = \frac{5}{4}$

$3 \times \frac{1}{4} \quad \frac{3}{4}$

$7 \times \frac{1}{4} \quad \frac{7}{4}$

$\frac{5}{4} \times \frac{3}{4} \times \frac{7}{4} = \frac{105}{64} = 1\frac{41}{64}$

d.) ✗

7   3   3

Same as c

Follow steps in foldable on Page 26.