3/10/20 - Warm Up Problem
A Barbie doll is $1 / 6$ the height of a real person.
Average size for a living room
in a new house is $303 \mathrm{ft}^{2}$ in a new house is $303 \mathrm{ft}^{2}$.

How many square feet should be in Barbie's living room?

$$
303 \cdot \frac{1}{36}=
$$

$$
8.41 \mathrm{ft}^{2} \int_{-\infty} \mathrm{ll}_{0}
$$

Concept 24 - Area of a Triangle given SAS
Goal: use prior knowledge to develop a formula for area of SAS triangles
Find the area of $\triangle A B C$.


$$
A=25.2 \text { units }^{2}
$$

## Area of a Triangle Given SAS

$$
\begin{aligned}
& A=\frac{1}{2} \cdot b \cdot c \cdot \operatorname{Sin}(A) \\
& \\
& \text { sides Angle }
\end{aligned}
$$

Find the area of each triangle.

$A=1 / 2(15)(8) \operatorname{Sin} 40$
$A=38.6$ units $^{2}$

| Assignment: |
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| Kahoot Challenge |
| go to Kahoot.it |
| Code: 0124607 |
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