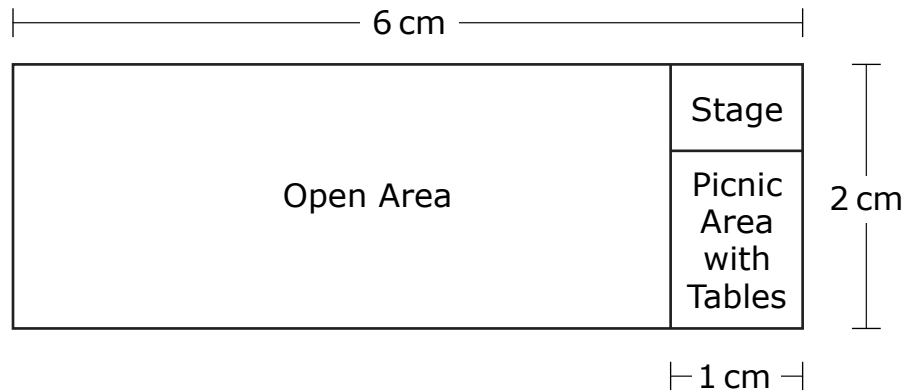




EVENTFUL DAY

Scale Drawings

The venue for your event provides a scale drawing of the event space to help you plan how to use the space. Below is a scale drawing of the venue.



Each centimeter on the drawing is equivalent to 20 feet. Using what you know about ratios and proportions, answer the following questions.

1. What are the actual dimensions of the whole venue space?

$$120 \text{ ft by } 40 \text{ ft} \quad \frac{1 \text{ cm}}{20 \text{ ft}} = \frac{6 \text{ cm}}{120 \text{ ft}} \quad \frac{1 \text{ cm}}{20 \text{ ft}} = \frac{2 \text{ cm}}{40 \text{ ft}}$$

2. What are the actual dimensions of the stage and picnic area combined?

$$20 \text{ ft by } 40 \text{ ft} \quad \frac{1 \text{ cm}}{20 \text{ ft}} = \frac{1 \text{ cm}}{20 \text{ ft}} \quad \frac{1 \text{ cm}}{20 \text{ ft}} = \frac{2 \text{ cm}}{40 \text{ ft}}$$

3. What are the actual dimensions of the open area?

$$100 \text{ ft by } 40 \text{ ft} \quad \frac{1 \text{ cm}}{20 \text{ ft}} = \frac{5 \text{ cm}}{100 \text{ ft}} \quad \frac{1 \text{ cm}}{20 \text{ ft}} = \frac{2 \text{ cm}}{40 \text{ ft}}$$

4. How many square feet are available for use in the open area?

$$\text{Area} = 4,000 \text{ sq ft}$$

$$\text{Area} = \text{length} \times \text{width}$$

$$\text{Area} = 100 \text{ ft} \times 40 \text{ ft} = 4,000 \text{ sq ft}$$