## TOPOGRAPHIC MAPS - REVIEW

3. What is the scale (stated as a ratio) of a map where inch $=1$ mile? Show your calculations.

4. On a map drawn to a scale of inch $=1$ mile, what distance on the map represents 2,000 feet? Show your calculations.
$1 m: x \frac{52804 t}{m:}=$ in = 5280 lt
5. What is the scale (stated as a ratio) of a map where $1^{\prime \prime}=2,000^{\prime}$ ? Show your calculations?

$$
2000 \mathrm{St} \times \frac{12 \mathrm{fi}}{f t}=24,000 \mathrm{im}
$$

$$
1: 24,000
$$

6. On a map drawn to a scale of $1: 100,000$, what distance is represented by 3 inches?
Show your calculations.

$$
\sin \times \frac{100,000}{1}=300,000 \text { nN } \times \frac{181}{12 ;} \times \frac{1 \mathrm{~m}:}{5280 \mathrm{fy}}=4.73 \mathrm{~m}
$$

7. On a map drawn to a scale of $1: 100,000$, what distance is represented by 3 cm ? Show your calculations.

$$
3 \mathrm{~cm} \times \frac{100,000}{1}=300,000 \mathrm{~cm} \times \frac{1 \mathrm{~m}}{100 \mathrm{~cm}} \times \frac{1 \mathrm{~km}}{1000 \mathrm{~m}}=3 \mathrm{~km}
$$

8. A $4^{n}$-long ridge on an air photo is 2 miles on a map. What is the photo scale?


