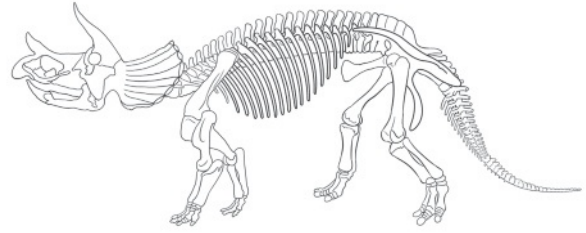


Paleontologist

Did You Know? A scientist who studies fossils and researches the history of life on Earth is a paleontologist. The research involves the study of how life forms have evolved or changed over long periods of time.



Grid mapping is a way of dividing an area of land into equal parts. Paleontologists use grid mapping to record the location of bones. Below are two grid maps used for two different fossil dig sites.

A	B	C	D
E	F	G	H

Fossil Dig Site X

A	B	C
D	E	F

Fossil Dig Site Y

- 1 For Fossil Dig Site X, parts A, B, and C represent what fraction of the whole? Explain.

$\frac{3}{8}$; Sample answer: Each part is $\frac{1}{8}$ of the whole; A, B, and C represent 3 parts, or $\frac{3}{8}$.

- 2 For Fossil Dig Site Y, parts A, B, and C represent what fraction of the whole? Explain.

$\frac{3}{6}$; Sample answer: Each part is $\frac{1}{6}$ of the whole; A, B, and C represent 3 parts, or $\frac{3}{6}$.

- 3 **Extension** Samantha says that in Fossil Dig Site X, the fraction of the parts **NOT** shaded is $\frac{5}{8}$. Do you agree? Explain.

No; Sample answer: The whole is $\frac{8}{8}$. There are 5 parts not shaded, which is $\frac{5}{8}$.