

# Pre-Test

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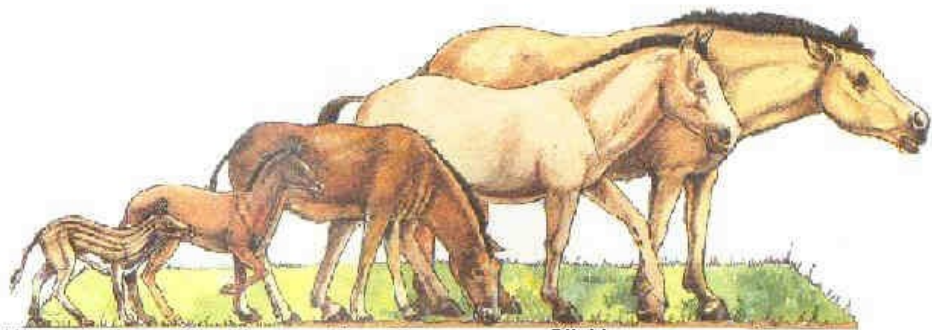


Is a horse bigger than a deer?





# Is a modern horse larger than an ancient horse?



**Hyracotherium**

**Mesohippus**

**Merychippus**

**Pliohippus**

**Equus**

# Your task



An ostracod is a small bivalved member of the Ostracoda subclass of the class Crustacea. In SpeciesPreTest.xls are measurement data in mm from two boreholes for species A and B, with the depth in m at which each measurement was taken.

## Questions:

- 1) What is the average size for each species? Standard deviation?
- 2) Are the two species of significantly different sizes? Show how you determine this and make clear your assumptions.
- 3) Does size of either species change significantly with depth? Again, show how you determine this and make clear your assumptions.  
(Greater depth indicates greater geologic age.)

Please answer each question on a separate page in the spreadsheet.