

Extreme Trees

Trees inspire us with their size, length of life, and sheer beauty. Use the chart of extreme trees to solve the problems below.



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Species	Distinction	Extreme fact
Coast redwood	tallest tree in the world	360 feet
Giant sequoia	large circumference at base	112 feet
Montezuma cypress	widest diameter for a tree	38.1 feet
Canyon live oak	large circumference	385 feet
Sugar pine	largest circumference for a pine tree	414 feet
Monterey pine	large circumference for a pine tree	334 feet
European mountain ash	large circumference	121 feet

1. Fill in the chart below. (Hint: Think about how you could use inverse operations to find the diameter and radius when you know the circumference. Also remember that the diameter is twice as large as the radius.)

Tree	Circumference	Diameter	Radius
Giant sequoia	112 feet		
Canyon live oak	385 feet		
Monterey pine	334 feet		
European mountain ash	121 feet		
Sugar pine	414 feet		

2. An Apache pine tree, while not extremely large, has a diameter of approximately 40 feet and a height of 108 feet. Is the circumference larger than its height? How do you know?
3. The tallest tree in the world is the coast redwood. How many inches tall is this record-breaking tree?
4. The oldest tree in the world is a bristlecone pine tree. It turned 4,844 years old in 2013. In what year did this tree first sprout?

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“Extreme Trees”

Answer Key

1.

Tree	Circumference	Diameter	Radius
Giant sequoia	112 feet	35.7 ft.	17.9 feet
Canyon live oak	385 feet	122.5 ft.	61.3 ft.
Monterey pine	334 feet	106.3 ft.	53.2 ft.
European mountain ash	121 feet	38.5 ft.	19.3 ft.
Sugar pine	414 feet	131.8 ft.	65.9 ft.

2. yes; the circumference is 125.7 feet, which is larger than a height of 108 feet
3. 4,320 inches
4. 2831 B.C.

