

Grade 9 Mathematics Worksheet

Problem solving - measurement2

Questions:

Ranger Rick wants to measure the height of the great Hyperion (Coastal Redwood) tree. Rick is 1,98 m tall. He measures his shadow as 3 m and that of the tree as 169,5 m. How can he use these measurements to find the height of the tree?



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Solution

$$\frac{\quad}{3} = 1,98$$

$$\frac{x}{169,5} = \frac{1,98}{3}$$

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$$\therefore x = \frac{1,98 \times 169,5}{3} = 111,87m$$