

Dinosaur algebra

This task is about using algebraic equations.



- a) A triceratops weighed four times as much as a stegosaurus. Together they weighed 15 tonnes. Here is an equation describing their total weight.

$$x + 4x = 15$$

- i) What does the x in the equation stand for?

<input type="radio"/> The weight of the triceratops.	<input type="radio"/> The weight of the stegosaurus.
<input type="radio"/> The number of dinosaurs.	<input type="radio"/> The total weight of the two dinosaurs.
<input type="radio"/> The difference in weight between the two dinosaurs.	

- ii) What is the weight of the stegosaurus?

<input type="radio"/> 1 tonne	<input type="radio"/> 3 tonnes	<input type="radio"/> 4 tonnes	<input type="radio"/> 12 tonnes	<input type="radio"/> 15 tonnes
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- A brontosaurus weighed 3 times as much as a triceratops. Together they weighed 48 tonnes. The equation shows their total weight.

$$y + \boxed{?} y = 48$$

- To complete the equation correctly, what number should be in the box above?

<input type="radio"/> 1	<input type="radio"/> 2	<input type="radio"/> 3	<input type="radio"/> 4	<input type="radio"/> 8
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