



GCSE Maths Takeaway 106 - Spheres and Cones

Name:.....

Date:.....

The volume of a sphere of radius 3 cm is

(A) $9\pi \text{ cm}^3$

(B) $18\pi \text{ cm}^3$

(C) $27\pi \text{ cm}^3$

(D) $36\pi \text{ cm}^3$

Correct Answer: A B C D

Explanation:

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The surface area of a sphere is $36\pi \text{ cm}^2$. What is the volume of the sphere?

(A) $4\pi \text{ cm}^3$

(B) $12\pi \text{ cm}^3$

(C) $24\pi \text{ cm}^3$

(D) $36\pi \text{ cm}^3$

Correct Answer: A B C D

Explanation:

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Follow up Questions for Edexcel GCSE – June 2014 – Higher – Paper 2 (Calc) – Question 25

A toy is made up of a hemisphere and a cone
 The hemisphere has radius 7 cm
 The height of the toy is 22cm
 Calculate the volume of the toy

Step 1

What is the volume of the hemisphere?

(A) 307.876 ... (B) 43.982 ...

(C) 718.377 ... (D) 1436.755 ...

Correct Answer: A B C D

Explanation:

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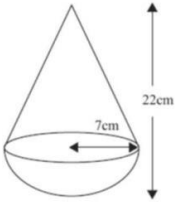
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Follow up Questions for Edexcel GCSE – June 2014 – Higher – Paper 2 (Calc) – Question 25

A toy is made up of a hemisphere and a cone
 The hemisphere has radius 7 cm
 The height of the toy is 22cm
 Calculate the volume of the toy



Step 2

What is the height of the cone?

A) 15cm B) 22cm
 C) 8cm D) Not enough information to tell

Correct Answer: A B C D

Explanation:

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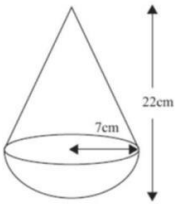
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Follow up Questions for Edexcel GCSE – June 2014 – Higher – Paper 2 (Calc) – Question 25

A toy is made up of a hemisphere and a cone
 The hemisphere has radius 7 cm
 The height of the toy is 22cm
 Calculate the volume of the toy



Step 3

What is the volume of the cone?

A) 1128.878 ... B) 769.690 ...
 C) 329.867 ... D) 384.845 ...

Correct Answer: A B C D

Explanation:

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