



New Maths GCSE: G16 - Volume of Prisms

Name:.....

Date:.....

Complete the sentence with the word that is a **sufficient** condition for a 3D shape to be a prism:

"All prisms have cross-sections that are ...???... throughout the shape"

- A** Right-angled
- B** Congruent
- C** Parallel
- D** Similar

Correct Answer: A B C D

Explanation:

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Which set of dimensions belongs to a cuboid with a volume of 440 cm^3 ?



- A** $6\text{cm}, 12\text{cm}, 5\text{cm}$
- B** $8\text{cm}, 5\text{cm}, 11\text{cm}$
- C** $100\text{cm}, 100\text{cm}, 240\text{cm}$
- D** $12\text{cm}, 2\text{cm}, 5\text{cm}$

Correct Answer: A B C D

Explanation:

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A standard die is a cube with sides measuring 15mm . What is the volume of the die?



- A** 45mm^3
- B** 90mm^3
- C** 225mm^3
- D** 3375mm^3

Correct Answer: A B C D

Explanation:

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A rectangular garage has a volume of 480 m^3 , a length of 12 m and a width of 8 m . What is the height of the garage?



- A 5m B 24m
- C 10m D 2.5m

Correct Answer: A B C D

Explanation:

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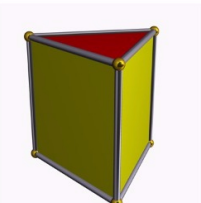
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A triangular prism has a base area of 7 cm^2 and a volume of 84 cm^3 . The height of the prism must be



- A 3cm B 6cm
- C 12cm D 24cm

Correct Answer: A B C D

Explanation:

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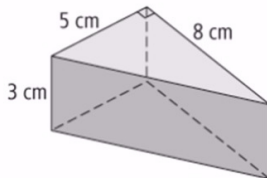
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What is the volume of this triangular prism?



- A 60cm^3 B 90cm^3
- C 120cm^3 D 150cm^3

Correct Answer: A B C D

Explanation:

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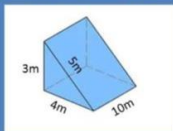
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What is the volume of the prism?



- A 60m^3 B 120m^3
- C 100m^3 D 600m^3

Correct Answer: A B C D

Explanation:

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What is the Volume of the triangular Prism?

A 288 cm^3 B 5760 cm^3
C 576 cm^3 D 2800 cm^3

Correct Answer: A B C D

Explanation:

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Find the volume of this cuboid:

Correct Answer: A B C D

Explanation:

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Which solid figure has exactly twice the volume, in cubic units, as the solid figure shown above?

Correct Answer: A B C D

Explanation:

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Three of the following statements are true and one is false. Which statement is false?

A The area of the shape P is 96 cm^2 .
 B The area of shape Q is 90 cm^2 .
 C The volume of shape R is 540 cm^3 .
 D The volume of shape S is 490 cm^3 .

Correct Answer: A B C D

Explanation:

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A cube has volume 125 cm^3 . What is the area of one of its faces?

- (A) 5 cm^2
- (B) 25 cm^2
- (C) 150 cm^2
- (D) 300 cm^2

Correct Answer: A B C D

Explanation:

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