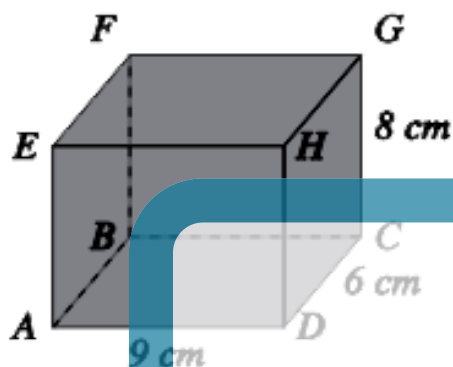# 3D Pythagoras
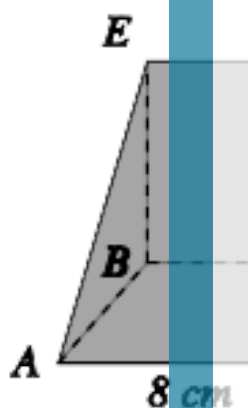
1) Find the length of AC in the shape pictured below, giving your answer to 3 significant figures.

F   G

E   H   8 cm

B   C

6 cm

AC = _____

A   D

9 cm

2) Find the _____ below, giving your
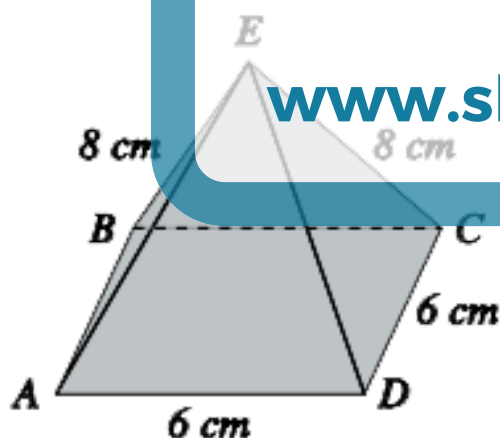
E

B

A

8 cm

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3) Find the _____ below, giving your

E

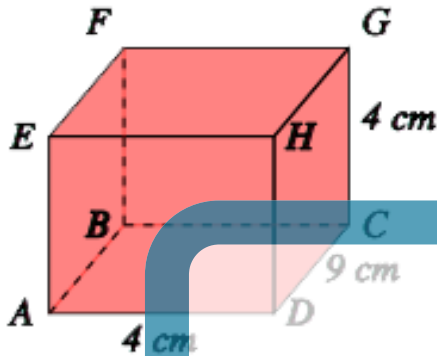8 cm   8 cm

B   C

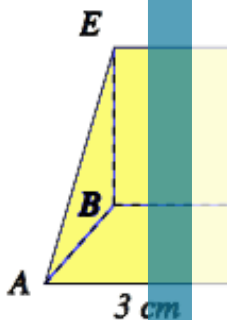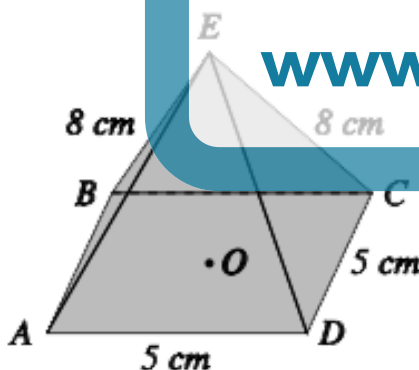6 cm

AC = _____

A   D

6 cm

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3D Pythagoras

4) Find the length of DF in the shape pictured below, giving your answer to 3 significant figures.

DF = _____

5) Find the _____ below, giving your _____

6) Find the _____ below where O is t _____ Give your _____
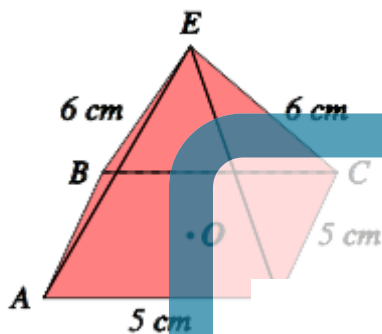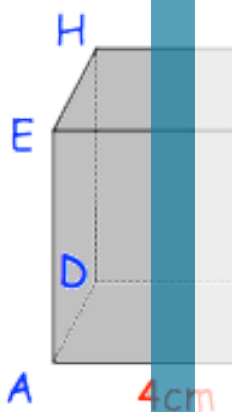
OC = _____

3D Pythagoras

7) Find the vertical height, OE, of the pyramid pictured below (where O is the centre of the base ABCD).
Give your answer to 3 significant figures.

E

6 cm   6 cm

B   C

·O   5 cm

A

5 cm

8) Shown i
Calculate t

H

E

D

A   4cm

9) Shown b
AB = 8cm, BC = 3cm and CG = 4cm
Find the length AG

H   G

E   F   4cm

D   C

A   8cm   B   3cm

AG = _____

3D Pythagoras – **Answers**

1) Find the length of AC in the shape pictured below, giving your answer to 3 significant figures.

F   G

E   H   8 cm

B   C

6 cm

A   D

9 cm

AC = ___10.8 cm___

2) Find the ... below, giving your

E

B

A

8 cm

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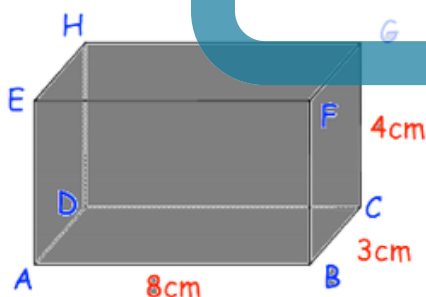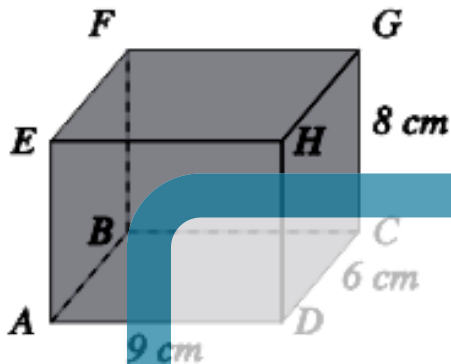If you are a member, please login to download this worksheet

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___cm___

3) Find the ... below, giving your

E

8 cm   8 cm

B   C

6 cm

A   D
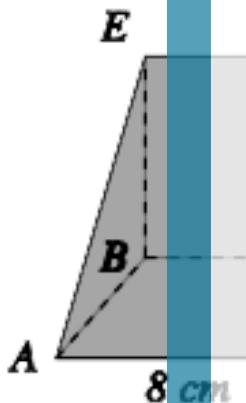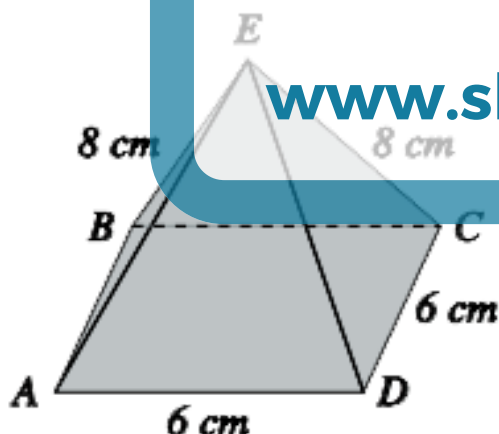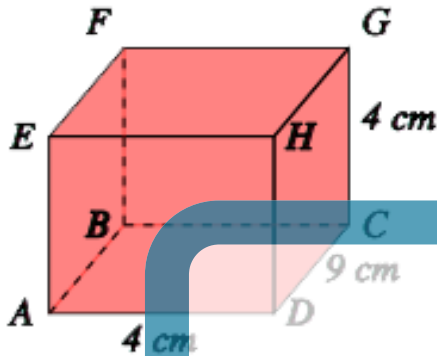
6 cm

AC = ___8.47 cm___

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3D Pythagoras - **Answers**

4) Find the length of DF in the shape pictured below, giving your answer to 3 significant figures.

F   G

E   H   4 cm

B   C

9 cm

A   D

4 cm

DF = _____ 10.6 cm _____

5) Find the _____ below, giving your _____

E

B

A

3 cm

_____ 37 cm _____

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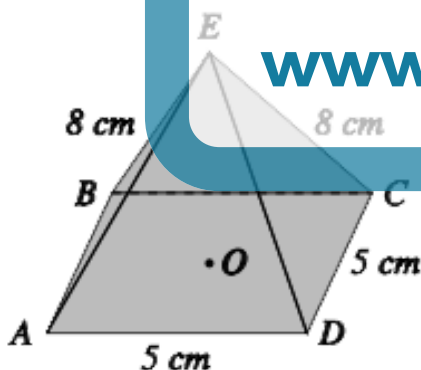If you are a member, please login to download this worksheet

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6) Find the _____ below where O is t _____

Give your _____

E

8 cm   8 cm

B   C

•O   5 cm

A   D

5 cm

OC = _____ 3.54 cm _____
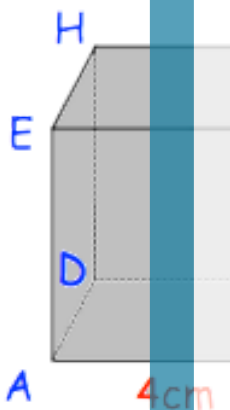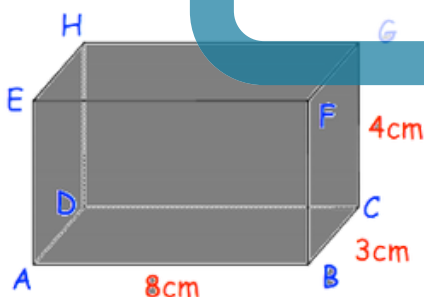
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3D Pythagoras - Answers

7) Find the vertical height, OE, of the pyramid pictured below (where O is the centre of the base ABCD). Give your answer to 3 significant figures.

4.85 cm

8) Shown is
Calculate t

28 cm

9) Shown below is a cuboid.
AB = 8cm, BC = 3cm and CG = 4cm
Find the length AG

AG = 9.434 cm