

Solutions – 3D Pythagoras (A)

A cuboid has dimensions 9 cm, 2 cm and 4 cm. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$\sqrt{101}$ cm

A cuboid has dimensions 8 m, 3 m and 8 m. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$\sqrt{137}$ m

A cuboid has dimensions 2 cm, 3 cm and 2 cm. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$\sqrt{17}$ cm

A cuboid has dimensions 10 m, 5 m and 9 m. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$\sqrt{206}$ m

A cuboid has dimensions 4 mm, 2 mm and 3 mm. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$\sqrt{29}$ mm

Solutions – 3D Pythagoras (B)

A cuboid has dimensions 8 mm, 6 mm and 3 mm. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$$\sqrt{109} \text{ mm}$$

A cuboid has dimensions 8 mm, 2 mm and 4 mm. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$$2\sqrt{21} \text{ mm}$$

A cuboid has dimensions 3 m, 4 m and 7 m. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$$\sqrt{74} \text{ m}$$

A cuboid has dimensions 10 cm, 8 cm and 4 cm. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$$6\sqrt{5} \text{ cm}$$

A cuboid has dimensions 5 cm, 7 cm and 8 cm. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$$\sqrt{138} \text{ cm}$$

Solutions – 3D Pythagoras (C)

A cuboid has dimensions 2 cm, 3 cm and 4 cm. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$\sqrt{29}$ cm

A cuboid has dimensions 7 mm, 4 mm and 4 mm. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

9 mm

A cuboid has dimensions 4 mm, 8 mm and 5 mm. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$\sqrt{105}$ mm

A cuboid has dimensions 5 cm, 8 cm and 7 cm. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$\sqrt{138}$ cm

A cuboid has dimensions 5 m, 5 m and 2 m. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$3\sqrt{6}$ m

Solutions – 3D Pythagoras (D)

A cuboid has dimensions 2 cm, 4 cm and 6 cm. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$$2\sqrt{14} \text{ cm}$$

A cuboid has dimensions 8 cm, 5 cm and 10 cm. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$$3\sqrt{21} \text{ cm}$$

A cuboid has dimensions 10 m, 9 m and 10 m. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$$\sqrt{281} \text{ m}$$

A cuboid has dimensions 6 mm, 6 mm and 5 mm. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$$\sqrt{97} \text{ mm}$$

A cuboid has dimensions 9 m, 8 m and 10 m. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$$7\sqrt{5} \text{ m}$$

Solutions – 3D Pythagoras (E)

A cuboid has dimensions 6 m, 7 m and 5 m. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$$\sqrt{110} \text{ m}$$

A cuboid has dimensions 9 cm, 7 cm and 8 cm. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$$\sqrt{194} \text{ cm}$$

A cuboid has dimensions 4 m, 5 m and 7 m. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$$3\sqrt{10} \text{ m}$$

A cuboid has dimensions 2 mm, 9 mm and 10 mm. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$$\sqrt{185} \text{ mm}$$

A cuboid has dimensions 9 cm, 9 cm and 9 cm. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$$9\sqrt{3} \text{ cm}$$

Solutions – 3D Pythagoras (F)

A cuboid has dimensions 6 m, 9 m and 10 m. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$$\sqrt{217} \text{ m}$$

A cuboid has dimensions 7 mm, 9 mm and 4 mm. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$$\sqrt{146} \text{ mm}$$

A cuboid has dimensions 9 cm, 3 cm and 9 cm. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$$3\sqrt{19} \text{ cm}$$

A cuboid has dimensions 2 mm, 9 mm and 8 mm. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$$\sqrt{149} \text{ mm}$$

A cuboid has dimensions 3 cm, 5 cm and 7 cm. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$$\sqrt{83} \text{ cm}$$

Solutions – 3D Pythagoras (G)

A cuboid has dimensions 9 m, 6 m and 10 m. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$$\sqrt{217} \text{ m}$$

A cuboid has dimensions 8 mm, 6 mm and 9 mm. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$$\sqrt{181} \text{ mm}$$

A cuboid has dimensions 6 mm, 10 mm and 7 mm. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$$\sqrt{185} \text{ mm}$$

A cuboid has dimensions 7 cm, 7 cm and 4 cm. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$$\sqrt{114} \text{ cm}$$

A cuboid has dimensions 4 m, 7 m and 8 m. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$$\sqrt{129} \text{ m}$$

Solutions – 3D Pythagoras (H)

A cuboid has dimensions 8 mm, 10 mm and 10 mm. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$$2\sqrt{66} \text{ mm}$$

A cuboid has dimensions 5 mm, 9 mm and 6 mm. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$$\sqrt{142} \text{ mm}$$

A cuboid has dimensions 9 m, 3 m and 10 m. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$$\sqrt{190} \text{ m}$$

A cuboid has dimensions 2 cm, 2 cm and 10 cm. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$$6\sqrt{3} \text{ cm}$$

A cuboid has dimensions 10 cm, 4 cm and 10 cm. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$$6\sqrt{6} \text{ cm}$$

Solutions – 3D Pythagoras (I)

A cuboid has dimensions 6 mm, 8 mm and 8 mm. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$$2\sqrt{41} \text{ mm}$$

A cuboid has dimensions 5 mm, 10 mm and 4 mm. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$$\sqrt{141} \text{ mm}$$

A cuboid has dimensions 10 m, 2 m and 7 m. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$$3\sqrt{17} \text{ m}$$

A cuboid has dimensions 2 cm, 7 cm and 4 cm. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$$\sqrt{69} \text{ cm}$$

A cuboid has dimensions 5 m, 4 m and 5 m. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$$\sqrt{66} \text{ m}$$

Solutions – 3D Pythagoras (J)

A cuboid has dimensions 7 mm, 6 mm and 8 mm. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$$\sqrt{149} \text{ mm}$$

A cuboid has dimensions 7 mm, 9 mm and 8 mm. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$$\sqrt{194} \text{ mm}$$

A cuboid has dimensions 4 cm, 10 cm and 4 cm. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$$2\sqrt{33} \text{ cm}$$

A cuboid has dimensions 7 m, 2 m and 9 m. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$$\sqrt{134} \text{ m}$$

A cuboid has dimensions 9 m, 6 m and 9 m. Find the length of the diagonal of the cuboid. Give your answer as an exact value.

$$3\sqrt{22} \text{ m}$$