

Special Parallelogram Rhombus and Square (Big Idea Geometry 7.4)

Lesson 082 | Geometry | Rhombus diagonals

<https://www.youtube.com/watch?v=sZ3ZYWtrVRk>

Original practice aligned to the saved video title.

Name: _____ Date: _____ Show your reasoning.

01

A rhombus has diagonals 20 and 16. Find its side length, perimeter, and area.

02

A rhombus has diagonals 22 and 24. Find its side length, perimeter, and area.

03

A rhombus has diagonals 8 and 16. Find its side length, perimeter, and area.

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04

A rhombus has diagonals 14 and 6. Find its side length, perimeter, and area.

05

A rhombus has diagonals 12 and 24. Find its side length, perimeter, and area.

06

A rhombus has diagonals 16 and 24. Find its side length, perimeter, and area.

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01

A rhombus has diagonals 20 and 16. Find its side length, perimeter, and area.

Diagonals bisect at right angles. Side $\sqrt{(100+64)}=\sqrt{164}$; perimeter $4\sqrt{164}$.

Area $=(1/2)(20)(16)=160$.

02

A rhombus has diagonals 22 and 24. Find its side length, perimeter, and area.

Diagonals bisect at right angles. Side $\sqrt{(121+144)}=\sqrt{265}$; perimeter $4\sqrt{265}$.

Area $=(1/2)(22)(24)=264$.

03

A rhombus has diagonals 8 and 16. Find its side length, perimeter, and area.

Diagonals bisect at right angles. Side $\sqrt{(16+64)}=\sqrt{80}$; perimeter $4\sqrt{80}$. Area $=(1/2)(8)(16)=64$.

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04

A rhombus has diagonals 14 and 6. Find its side length, perimeter, and area.

Diagonals bisect at right angles. Side $\sqrt{(49+9)}=\sqrt{58}$; perimeter $4\sqrt{58}$. Area $=(1/2)(14)(6)=42$.

05

A rhombus has diagonals 12 and 24. Find its side length, perimeter, and area.

Diagonals bisect at right angles. Side $\sqrt{(36+144)}=\sqrt{180}$; perimeter $4\sqrt{180}$.
Area $=(1/2)(12)(24)=144$.

06

A rhombus has diagonals 16 and 24. Find its side length, perimeter, and area.

Diagonals bisect at right angles. Side $\sqrt{(64+144)}=\sqrt{208}$; perimeter $4\sqrt{208}$.
Area $=(1/2)(16)(24)=192$.