



PERIMETER OF 2D SHAPES CHALLENGES 3

Work out the perimeter of the following shapes.

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|--|-------------------|
| 1) A square with sides length 70cm. | Perimeter = _____ |
| 2) A regular octagon with sides length $1\frac{1}{2}$ cm. | Perimeter = _____ |
| 3) A parallelogram with sides 1.4 cm and 2 cm. | Perimeter = _____ |
| 4) A rhombus with sides of $\frac{3}{4}$ m. | Perimeter = _____ |
| 5) An equilateral triangle with sides of 35mm. | Perimeter = _____ |
| 6) A rectangle with sides 1.8 cm and 3.2 cm. | Perimeter = _____ |
| 7) A regular hexagon with sides 0.9 m. | Perimeter = _____ |
| 8) A square with sides of $2\frac{1}{4}$ cm. | Perimeter = _____ |
| 9) A regular heptagon with sides length $4\frac{1}{2}$ cm. | Perimeter = _____ |
| 10) A regular decagon with sides 2.7 cm. | Perimeter = _____ |

Find the missing side length in the following rectangles.

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|--|----------------------|
| 9) A square with perimeter 1 m. | Side length = _____ |
| 10) A regular pentagon with a perimeter of 30 cm. | Side length = _____ |
| 11) A rectangle with perimeter of 18 cm and a side of $3\frac{1}{2}$ cm. | Missing side = _____ |
| 12) A regular hexagon with a perimeter of 3 m. | Side length = _____ |





PERIMETER OF 2D SHAPES CHALLENGES 3 ANSWERS

Work out the perimeter of the following shapes.

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| 1) A square with sides length 70cm. | Perimeter = <u>280 cm</u> |
| 2) A regular octagon with sides length $1\frac{1}{2}$ cm. | Perimeter = <u>12 cm</u> |
| 3) A parallelogram with sides 1.4 cm and 2 cm. | Perimeter = <u>6.8 cm</u> |
| 4) A rhombus with sides of $\frac{3}{4}$ m. | Perimeter = <u>3 m</u> |
| 5) An equilateral triangle with sides of 35mm. | Perimeter = <u>105 mm</u> |
| 6) A rectangle with sides 1.8 cm and 3.2 cm. | Perimeter = <u>10 cm</u> |
| 7) A regular hexagon with sides 0.9 m. | Perimeter = <u>5.4 m</u> |
| 8) A square with sides of $2\frac{1}{4}$ cm. | Perimeter = <u>9 cm</u> |
| 9) A regular heptagon with sides length $4\frac{1}{2}$ cm. | Perimeter = <u>31 $\frac{1}{2}$ cm</u> |
| 10) A regular decagon with sides 2.7 cm. | Perimeter = <u>27 cm</u> |

Find the missing side length in the following rectangles.

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|--|---|
| 9) A square with perimeter 1 m. | Side length = <u>25 cm ($\frac{1}{4}$ m)</u> |
| 10) A regular pentagon with a perimeter of 30 cm. | Side length = <u>6 cm</u> |
| 11) A rectangle with perimeter of 18 cm and a side of $3\frac{1}{2}$ cm. | Missing side = <u>5 $\frac{1}{2}$ cm</u> |
| 12) A regular hexagon with a perimeter of 3 m. | Side length = <u>0.5m (50 cm)</u> |