

Perimeter and Area

Subtopic: Area of a Parallelogram

Section 1

1 Mark T for True and F for False.

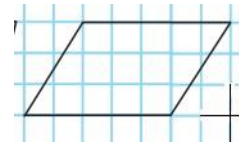
1a A parallelogram can be converted into a rectangle of equal area.

1b Parallelograms have equal areas and equal perimeters always.

1c Area of a parallelogram = base X height.

2 Choose the correct answer.

Find the area of the parallelogram in the figure by counting squares. The area is



a) 20 cm^2

b) 25 cm^2

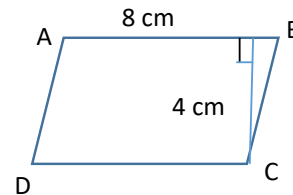
c) 15 cm^2

d) 10 cm^2

Section 2

3 Fill in the blanks.

The area of a parallelogram ABCD with $AB = 8 \text{ cm}$ and the perpendicular from C on AB is 4 cm is



4 Fill the missing values.

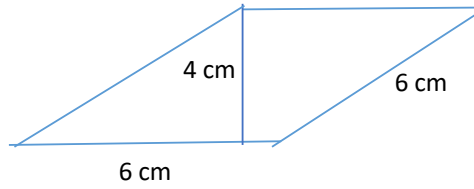
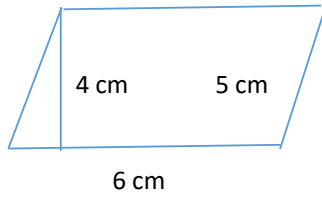
SN	Base	Height	Area of Parallelogram
a	20 cm		200 cm^2
b		15 cm	300 cm^2
c		8.4 cm	48.72 cm^2
d	15.6 cm		16.38 cm^2

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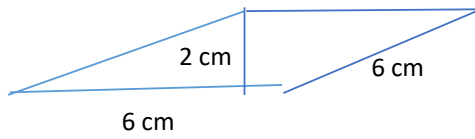
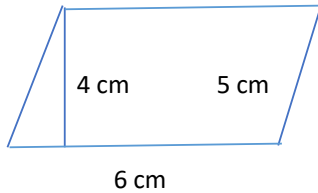
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Section 3

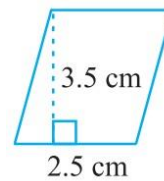
- 5 Find the area and perimeter of both the parallelograms below. What can you infer?



- 6 Find the area and perimeter of both parallelograms below. What can you infer?



- 7 Find the area of the parallelogram below.

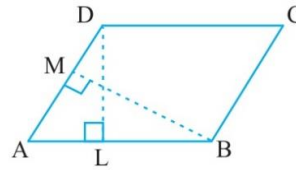


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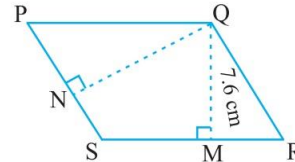
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Section 4 : Think and answer the questions below.

- 8 DL and BM are the heights on sides AB and AD, respectively, of parallelogram ABCD. If the area of the parallelogram is 1050 cm^2 , $AB = 35 \text{ cm}$ and $AD = 50 \text{ cm}$, find the length of BM and DL.



- 9 PQRS is a parallelogram. QM is the height from Q to SR and QN is the height from Q to PS. If $SR = 10 \text{ cm}$ and $QM = 7.6 \text{ cm}$. Find: (a) the area of the parallelogram PQRS, (b) QN, if $PS = 8 \text{ cm}$.



- 10 Manya said that 2 parallelograms with different shapes can have the same area. Is she correct? Give an example.