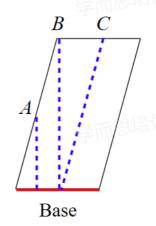


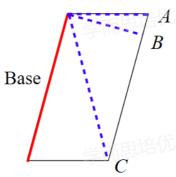
Area of Parallelograms

Choose the appropriate height corresponding to the provided base for the following parallelograms.

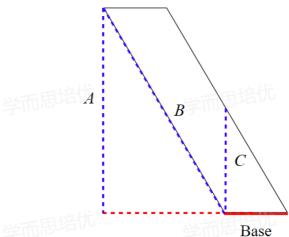
(1)



学而思(2)尤



(3)



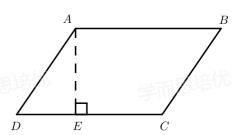
Answei

- (1) **B**
- (2) **B**
- (3) A

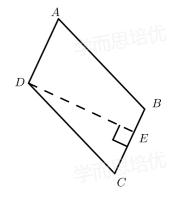


Answer the following questions.

(1) If AB is 5 cm and AE is 3 cm, the area of parallelogram ABCD is _____ cm².



(2) If AD is 4 cm and DE is 9 cm, the area of parallelogram ABCD is _____ cm².



Answer

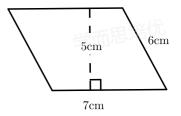
- (1) 15
- (2) **36**

Solution

- (1) $3 \times 5 = 15 \text{ cm}^2$
- (2) BC = AD = 4 cm

$$4 \times 9 = 36 \text{ cm}^2$$

Find the area of the parallelogram below.

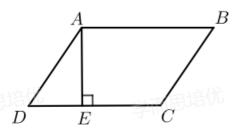




Solution
$$5 \times 7 = 35$$

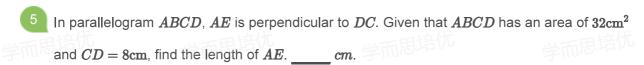


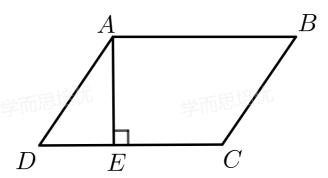
In parallelogram ABCD, \overline{AE} is perpendicular to \overline{DC} . Knowing that $\overline{AB}=4.5\mathrm{cm}$ and $\overline{AE}=2\mathrm{cm}$, the area of the parallelogram ABCD is ______ cm^2.



Answer

Solution N/A

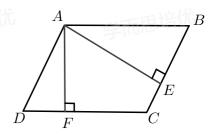




Answer

It is given that the area of a parallelogram ABCD is 126cm², with AE = 9cm and AF = 7cm. Find the perimeter of the parallelogram.

Ans: cm

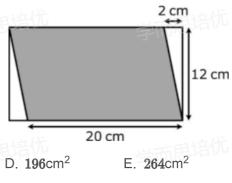


Answer 64

Solution NA

A parallelogram is placed in a rectangle.

What is the area of the parallelogram?



A. **226**cm²

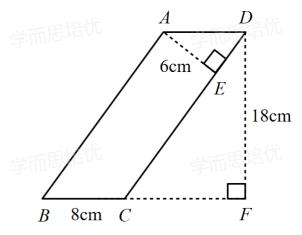
B. **240**cm²

C. 230cm² D. 196cm²

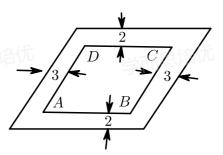
Answer В

Solution (UK ISEB Pre-test 15 Question 14)

igl(8) The following is a parallelogram. What is the length of CD? $____$ cm



The figure below illustrates a garden built in the shape of parallelogram ABCD. A small road is built around the garden. The relevant information of the small road has been marked in the figure (unit: m). The garden is known to have an area of $456 \mathrm{m}^2$ and AB is $24 \mathrm{m}$ long. What is the area of the small road? $\underline{\hspace{1cm}}$ m^2



Answer

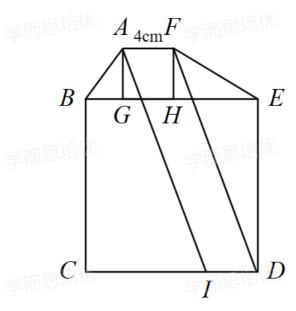
Solution Height of $ABCD = 456 \div 24 = 19$ m

Height of larger parallelogram = $19 + 2 \times 2 = 23$ m

Base of larger parallelogram = $24 + 3 \times 2 = 30$ m

Area of road = $23 \times 30 - 456 = 234$ m²

10 In the following figure, ABEF is a trapezium with an area of 28cm², AFDI is a parallelogram, AGHF and BCDE are both squares. The area of parallelogram AFDI is _____ cm².



Answer 56

Solution Use area formula of trapezium to find *BE*:

$$(BE+4)\times 4\div 2=28$$

$$BE = 10$$

Use area formula of parallelogram:

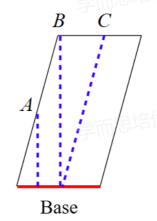
area of parallelogram
$$AFDI = 4 \times (4 + 10) = 4 \times 14 = 56$$



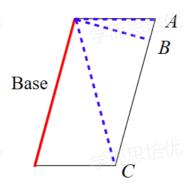
Area of Parallelograms

Choose the appropriate height corresponding to the provided base for the following parallelograms.

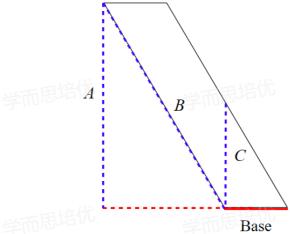
(1)



学而思(2)尤



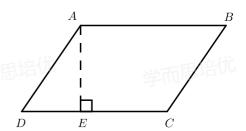
(3)



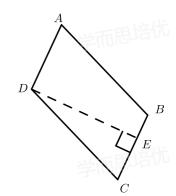


Answer the following questions.

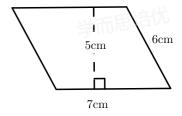




(2) If AD is 4 cm and DE is 9 cm, the area of parallelogram ABCD is _____ cm².



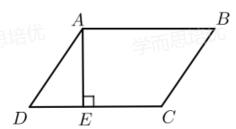
Find the area of the parallelogram below.



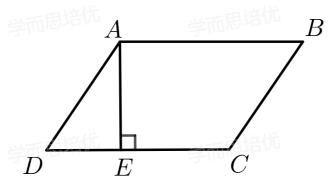


4

In parallelogram ABCD, \overline{AE} is perpendicular to \overline{DC} . Knowing that $\overline{AB}=4.5\mathrm{cm}$ and $\overline{AE}=2\mathrm{cm}$, the area of the parallelogram ABCD is _____ cm².

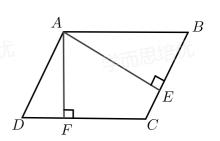


In parallelogram ABCD, AE is perpendicular to DC. Given that ABCD has an area of $32cm^2$ and CD = 8cm, find the length of AE. _____ cm.



It is given that the area of a parallelogram ABCD is 126cm^2 , with AE = 9 cm and AF = 7 cm. Find the perimeter of the parallelogram.

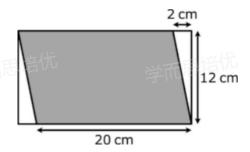
Ans: ____ cm



(17A

A parallelogram is placed in a rectangle.

What is the area of the parallelogram?



A. **226**cm²

B. **240**cm²

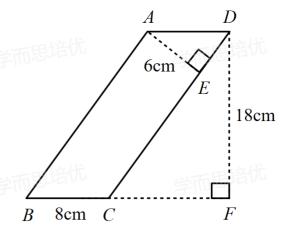
C. 230cm²

D. 196cm²

E. **264**cm²

-110.-

igl(8) The following is a parallelogram. What is the length of CD? $____$ cm



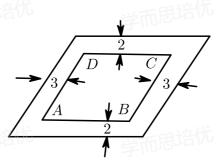
台面思培优

/ 五田培优

学而思培优



The figure below illustrates a garden built in the shape of parallelogram ABCD. A small road is built around the garden. The relevant information of the small road has been marked in the figure (unit: m). The garden is known to have an area of $456m^2$ and AB is 24m long. What is the area of the small road? ____ m^2



In the following figure, ABEF is a trapezium with an area of 28cm^2 , AFDI is a parallelogram, AGHF and BCDE are both squares. The area of parallelogram AFDI is _____ cm².

