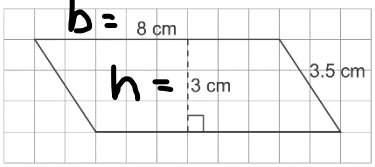
4.3: Area of a Parallelogram

1. Calculate the area of each parallelogram.

a)

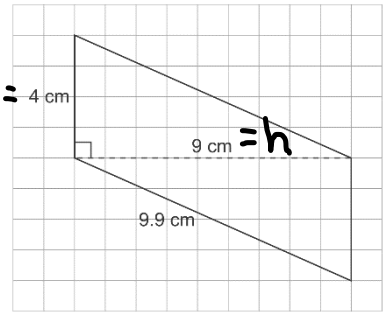


a) $A_{parallelogram} = bh$

$= (8\text{cm})(3\text{cm})$

$= 24\text{cm}^2$

b)

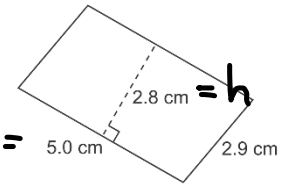


b) $A_{parallelogram} = bh$

$= (4\text{cm})(9\text{cm})$

$= 36\text{cm}^2$

c)

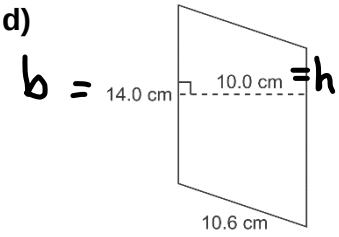


c) $A_{parallelogram} = bh$

$= (5.0\text{cm})(2.8\text{cm})$

$= 14\text{cm}^2$

d)



d) $A_{parallelogram} = bh$

$= (14\text{cm})(10\text{cm})$

$= 140\text{cm}^2$

2. The base of a parallelogram is 25 m. What is the height of the parallelogram for each area?

a) 100 m² **b)** 375 m² **c)** 225 m² **d)** 12.5 m²

a) $A \div b = h$

$100 \div 25 = 4$

$h = 4m$

b) $A \div b = h$

$375 \div 25 = 15$

$h = 15m$

c) $A \div b = h$

$225 \div 25 = 9$

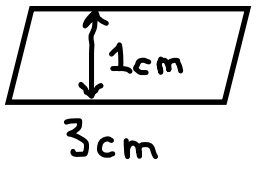
$h = 9m$

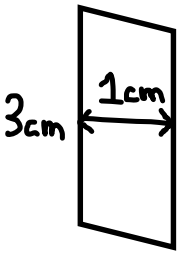
d) $A \div b = h$

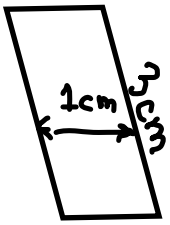
$12.5 \div 25 = 0.5$

$h = 0.5m$

3. Draw 3 different parallelograms with base 3 cm and height 1 cm.







4. Draw as many different parallelograms as you can with area 24 cm².