

Complete the following:

a) $0.92 \text{ km} = \underline{920} \text{ m}$

d) $31.7 \text{ cm} = \underline{0.317} \text{ m}$

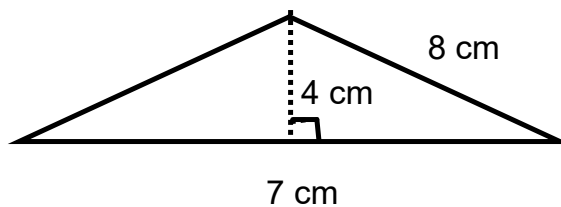
b) $834 \text{ m} = \underline{834000} \text{ mm}$

e) $51 \text{ mm} = \underline{5.1} \text{ cm}$

c) $2.4 \text{ km} = \underline{2400} \text{ m}$

f) $7400 \text{ mm} = \underline{7.4} \text{ m}$

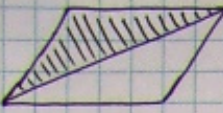
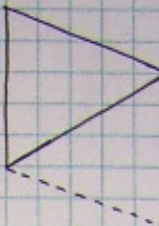
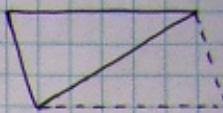
2) Find the area of the following

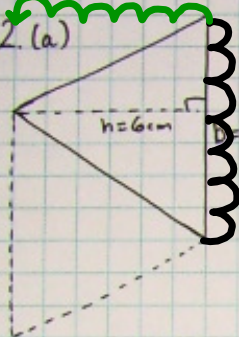


$$\begin{aligned}
 A &= \frac{b \times h}{2} \\
 &= \frac{7 \text{ cm} \times 4 \text{ cm}}{2} \\
 &= \frac{28 \text{ cm}^2}{2} \\
 &= 14 \text{ cm}^2
 \end{aligned}$$

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Homework Solutions

1. (a)  (b)  (c) 

2. (a) 

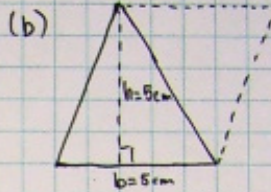
$$A = b \times h$$

$$A = 7\text{cm} \times 6\text{cm}$$

$$A = 42\text{cm}^2$$

$$A_T = 42\text{cm}^2 \div 2$$

$$= 21\text{cm}^2$$

(b) 

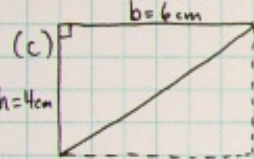
$$A = b \times h$$

$$A = 5\text{cm} \times 5\text{cm}$$

$$A = 25\text{cm}^2$$

$$A_T = 25\text{cm}^2 \div 2$$

$$= 12.5\text{cm}^2$$

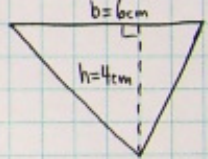
(c) 

$$A = b \times h \div 2$$

$$A = 6 \times 4 \div 2$$

$$A = 24 \div 2$$

$$A = 12\text{cm}^2$$

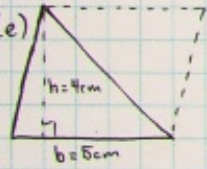
(d) 

$$A = b \times h \div 2$$

$$A = 6 \times 4 \div 2$$

$$A = 24\text{cm}^2 \div 2$$

$$A = 12\text{cm}^2$$

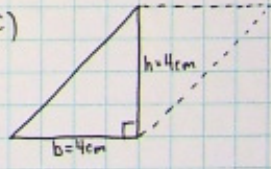
(e) 

$$A = b \times h \div 2$$

$$A = 5 \times 4 \div 2$$

$$A = 20 \div 2$$

$$A = 10\text{cm}^2$$

(f) 

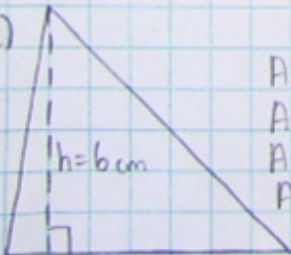
$$A = b \times h \div 2$$

$$A = 4 \times 4 \div 2$$

$$A = 16\text{cm}^2 \div 2$$

$$A = 8\text{cm}^2$$

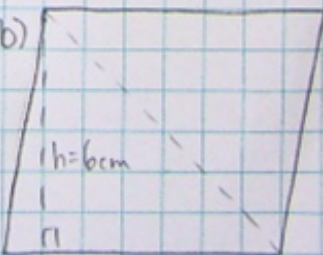
4.(a)



$h = 6\text{ cm}$
 $b = 7\text{ cm}$

$A = b \times h \div 2$
 $A = 7\text{ cm} \times 6\text{ cm} \div 2$
 $A = 42\text{ cm}^2 \div 2$
 $A = 21\text{ cm}^2$

(b)



$h = 6\text{ cm}$
 $b = 7\text{ cm}$

(c) $A = b \times h$
 $A = 7\text{ cm} \times 6\text{ cm}$
 $A = 42\text{ cm}^2$

The area of the parallelogram is double the area of the triangle.

Draw 3 different triangles each with area 12 square units.

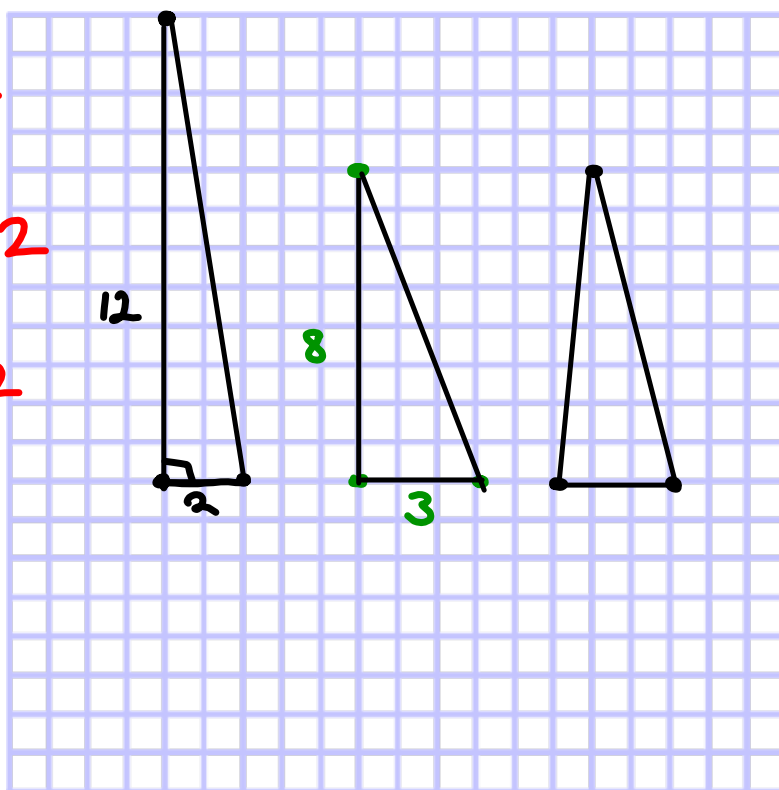
$$\frac{b \times h}{2} = A$$

$$\frac{b \times h}{2} = 12$$

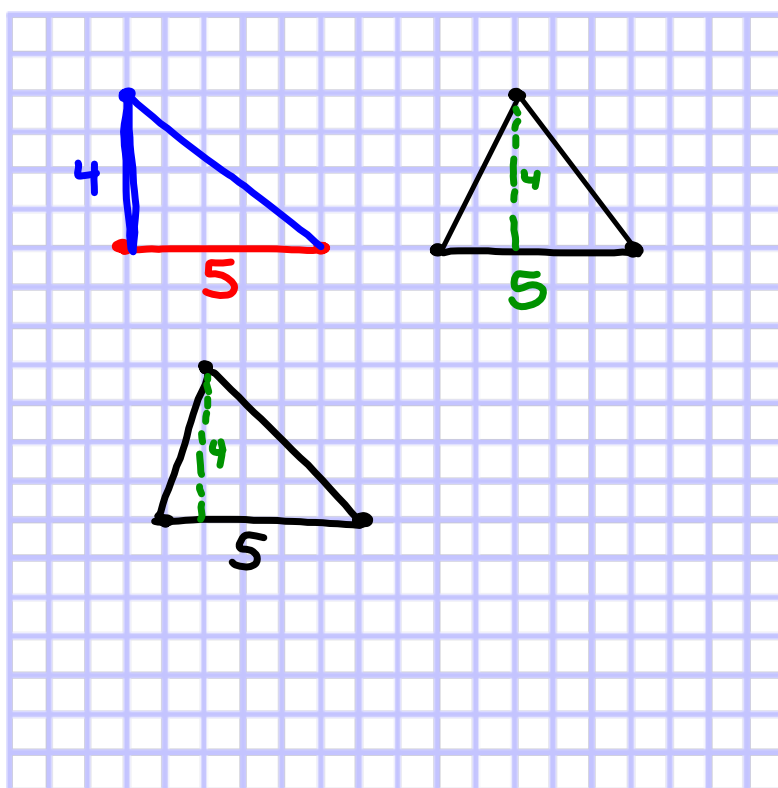
$$\frac{24}{2} = 12$$

$$b \times h = 24$$

1×24
 2×12
 3×8
 4×6



Draw 3 different triangles with base 5 units and height 4 units.

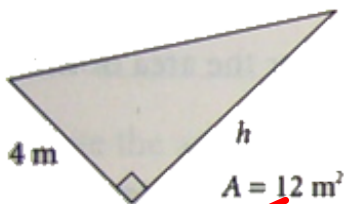


Calculating Base or Height for a triangle.

Given $A \triangle$

$$b = \frac{2A}{h} \quad h = \frac{2A}{b}$$

Find the height of each triangle.

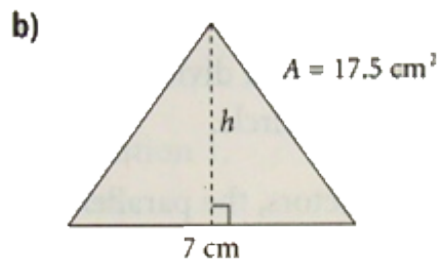


$$h = \frac{2A}{b}$$

$$h = \frac{2(12\text{m}^2)}{4\text{m}}$$

$$h = \frac{24\text{m}^2}{4\text{m}}$$

$$h = 6\text{m}$$

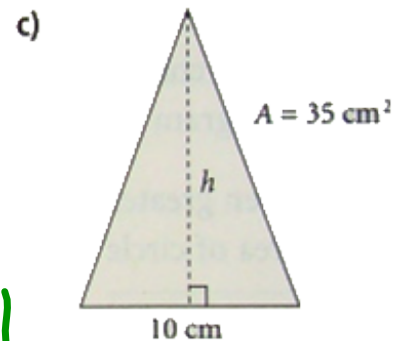


$$h = \frac{2A}{b}$$

$$= \frac{2(17.5\text{cm}^2)}{7\text{cm}}$$

$$= \frac{35\text{cm}^2}{7\text{cm}}$$

$$h = 5\text{cm}$$



$$h = \frac{2A}{b}$$

$$= \frac{2(35\text{cm}^2)}{10\text{cm}}$$

$$= \frac{70\text{cm}^2}{10\text{cm}}$$

$$h = 7\text{cm}$$

Class/Homework

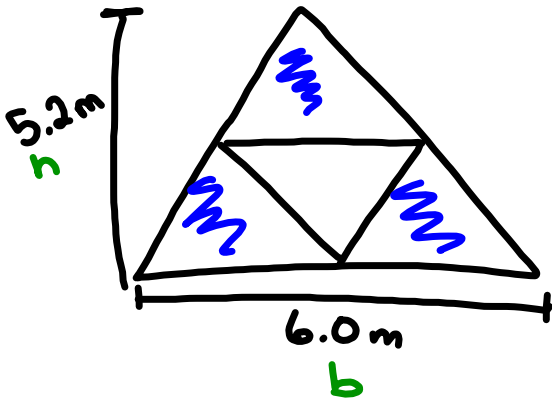
Practice Questions

Page 146 5, 7, ~~8~~
Page 147 #9, #11
extra

don't draw just List base height

$$5) h = \frac{2A}{b}$$

Once done check answer on page 360-361



$$A_{\Delta}^{\text{Big } \Delta} = \frac{6.0\text{m} \times 5.2\text{m}}{2}$$

$$= \frac{31.2\text{m}^2}{2}$$

$$= 15.6\text{m}^2$$

$$A_{\Delta}^{\text{Little}} = 15.6 \div 4$$

$$= 3.9\text{m}^2 \text{ 4 equal}$$

Painted area
3 Δ

$$\begin{array}{r} 3.9 \\ \times 3 \\ \hline 11.7 \end{array} \text{m}^2 \text{ is painted blue}$$

b) $11.7\text{m}^2 \div 5.5\text{m}^2$

2.12 cans

SO buy 3 cans

$$7a) \quad A_{\Delta} = 14\text{cm}^2 \quad b = ? \quad h = ?$$

$$A_{\Delta} = \frac{b \times h}{2}$$

↓

$$14\text{cm}^2 = \frac{b \times h}{2}$$

$$\boxed{28} \quad h$$

b

$$28\text{cm}^2$$

$$1 \times 28$$

$$2 \times 14$$

$$4 \times 7$$

$$b \times h$$

Factors
of 28
give
base
x
height