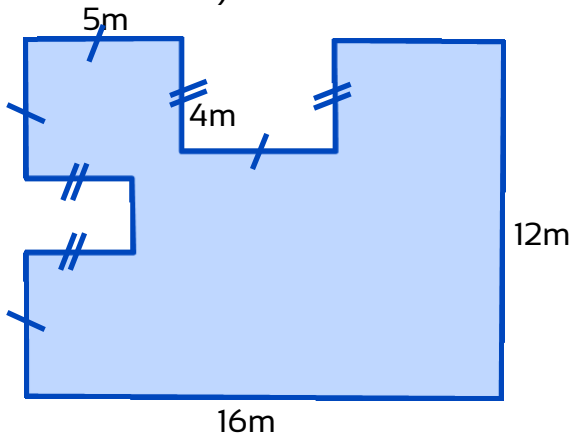


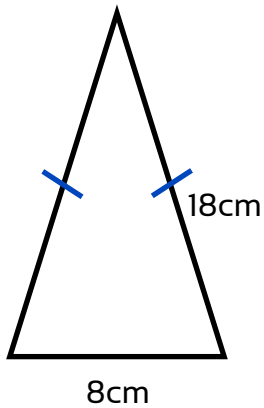
Find the missing side measures, then add.
(Complete with the slide)

(working space)

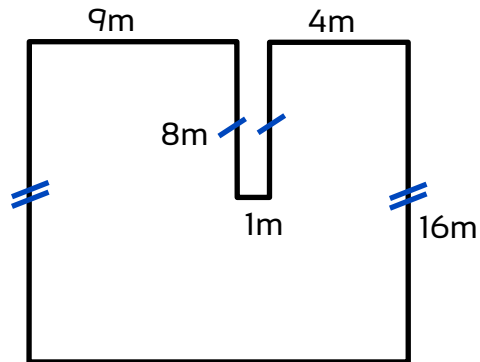
1)



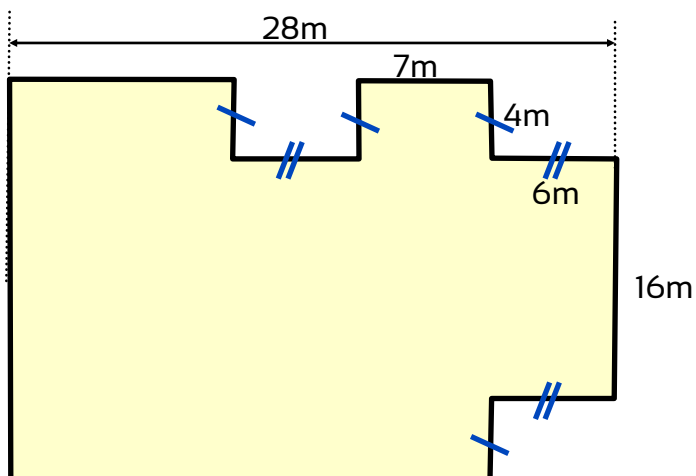
2)



3)

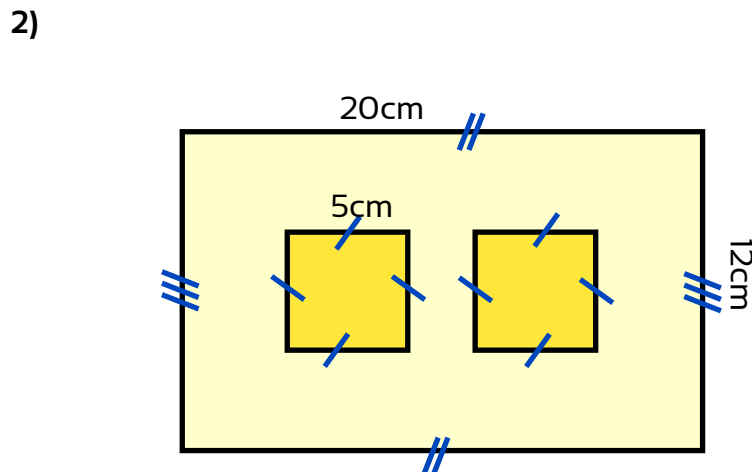
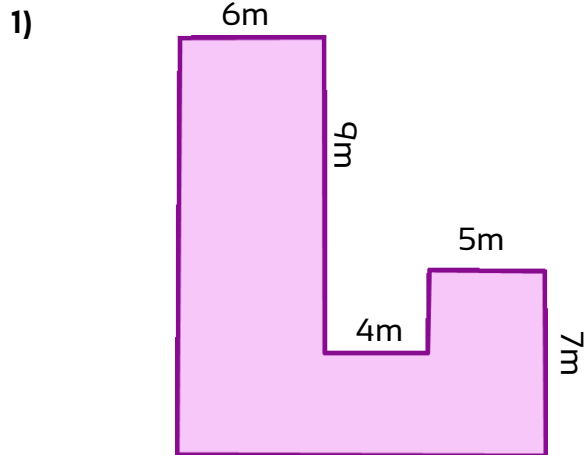


4)



Find the missing side measures, then add.
(Complete with the slide)

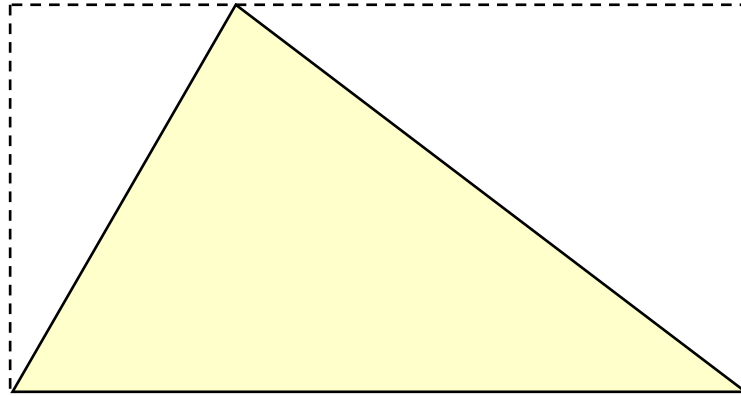
(working space)



- 3) A painter has to paint the 4 walls of a rectangular room measuring 5m x 4m. The 4 walls are 2.4m high. There are 2 windows measuring 1.5m x 2m and one doorway 1m x 2.1m. What is the area of walls to be painted?

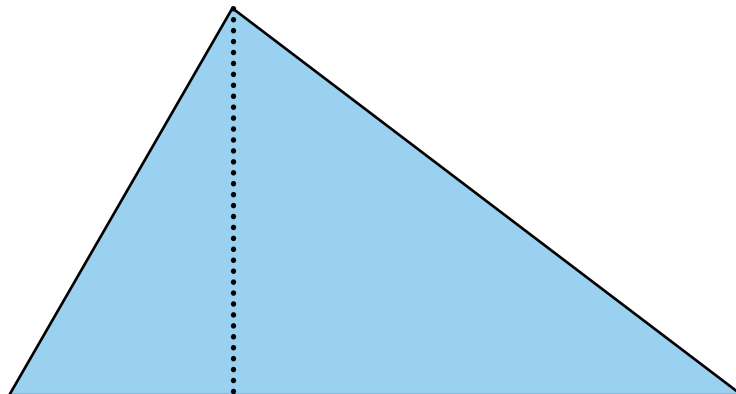
Challenge: Will a 4L tin of paint with a coverage of 16m²/L be enough to do 2 coats on the walls?

Prove that this triangle matches the formula. Cut out the triangle below and use it here.



Write the measures $B = 8\text{cm}$ and $H = 6\text{cm}$ on the image above.
Write the formula for the area of the triangle then solve it.

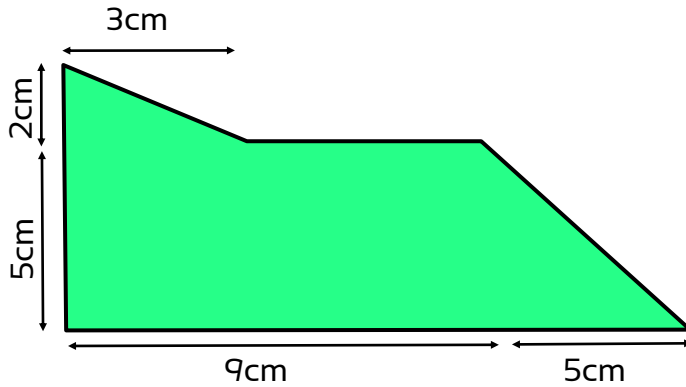
Cut out this shape, cut the triangle in half and glue it on the image above to prove that the area of a triangle is half of the base x height.



Find the missing side measures, then add.
(Complete with the slide)

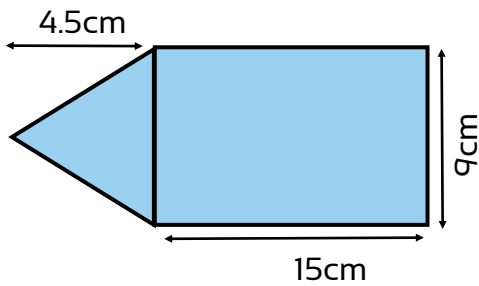
(working space)

1)

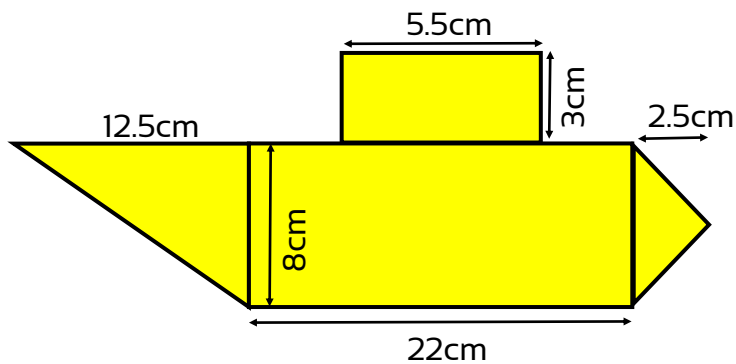


Work through these on your own

2)



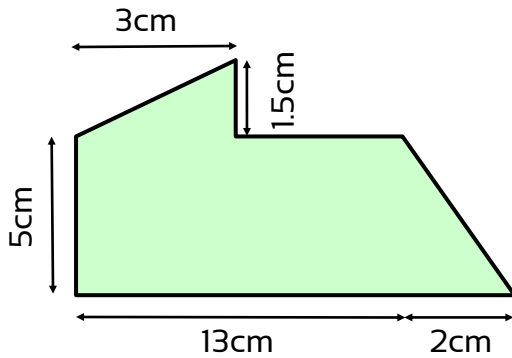
3)



Find the missing side measures, then add.
(Complete with the slide)

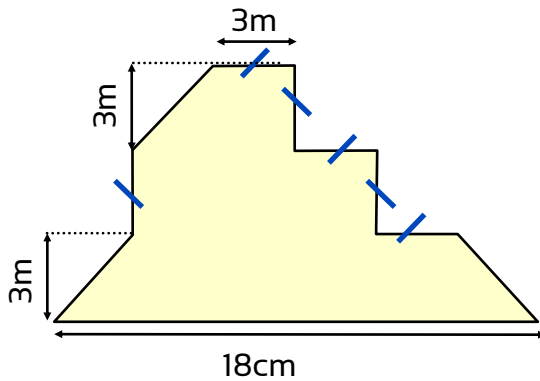
(working space)

1)

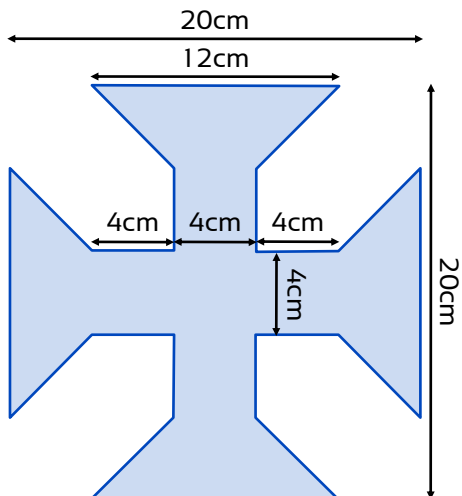


Work through these on your own

2)



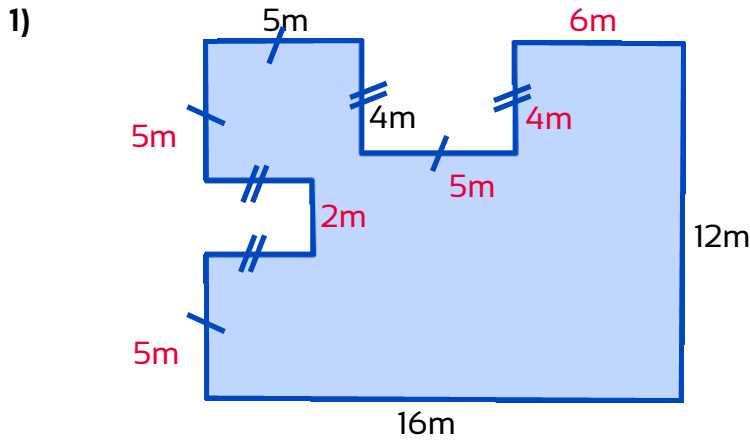
3)



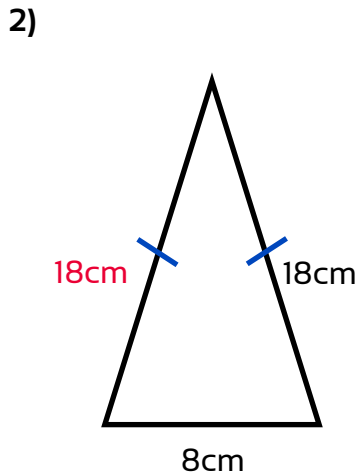
ANSWERS

Find the missing side measures, then add.
(Complete with the slide)

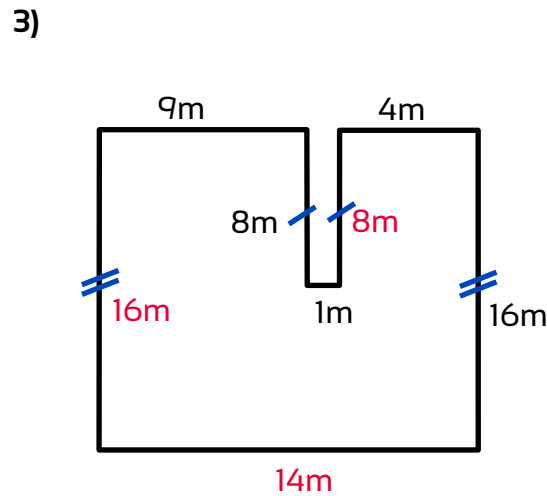
(working space)



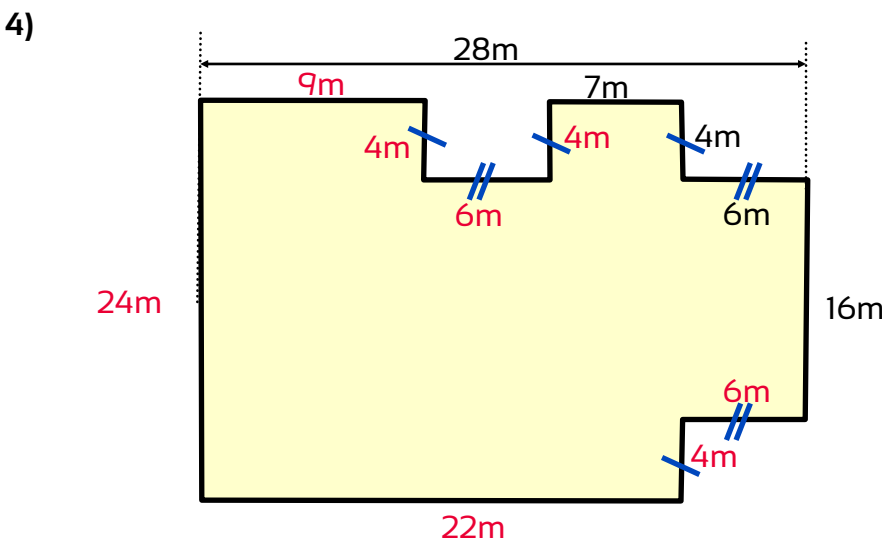
5m
4m
5m
4m
6m
12m
16m
5m
4m
3m
4m
5m
72m



18cm
18cm
8cm
44cm



9m
8m
1m
8m
4m
16m
14m
16m
76m

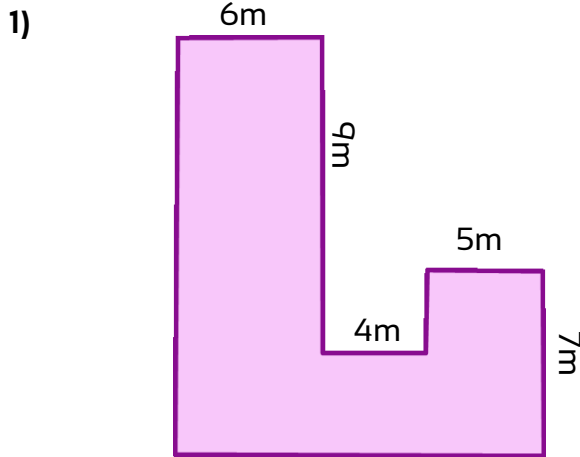


9m
4m
6m
4m
7m
4m
6m
16m
6m
4m
22m
24m
112m

ANSWERS

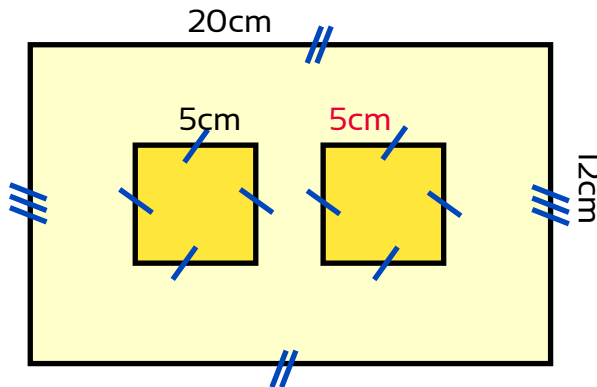
Find the missing side measures, then add.
(Complete with the slide)

(working space)



$$\begin{array}{r}
 54\text{m}^2 \\
 60\text{m}^2 \\
 15\text{m}^2 \\
 \hline
 129\text{m}^2
 \end{array}$$

2)



$$\begin{array}{r}
 240\text{cm}^2 \\
 - 50\text{cm}^2 \\
 \hline
 190\text{cm}^2
 \end{array}$$

3) A painter has to paint the 4 walls of a rectangular room measuring 5m x 4m. The 4 walls are 2.4m high. There are 2 windows measuring 1.5m x 2m and one doorway 1m x 2.1m. What is the area of walls to be painted?

Door:

Doors & windows:

Walls 1 & 3:	Walls 2 & 4:	Walls total:	2 Windows:
$ \begin{array}{r} 2.4 \\ \times 5 \\ \hline 12.0 \\ \times 2 \\ \hline 24.0 \text{ m}^2 \end{array} $	$ \begin{array}{r} 2.4 \\ \times 4 \\ \hline 9.6 \\ \times 2 \\ \hline 19.8 \text{ m}^2 \end{array} $	$ \begin{array}{r} 24.0 \\ 19.8 \\ \hline 43.8 \text{ m}^2 \end{array} $	$ \begin{array}{r} 1.5 \\ \times 2 \\ \hline 3.0 \\ \times 2 \\ \hline 6 \text{ m}^2 \end{array} $

$$\begin{array}{r}
 2.1 \\
 \times 1 \\
 \hline
 2.1 \text{ m}^2 \\
 + 6 \\
 \hline
 8.1 \text{ m}^2
 \end{array}$$

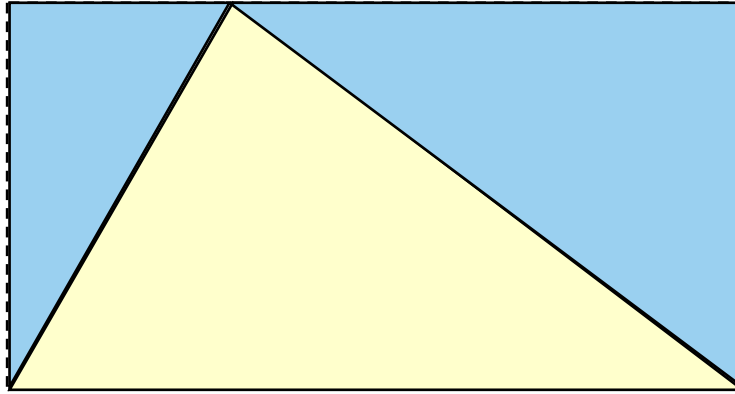
Walls area:

$$\begin{array}{r}
 43.8 \\
 8.1 \\
 \hline
 35.7 \text{ m}^2
 \end{array}$$

Challenge: Will a 4L tin of paint with a coverage of 16m²/L be enough to do 2 coats on the walls? **No**

ANSWERS

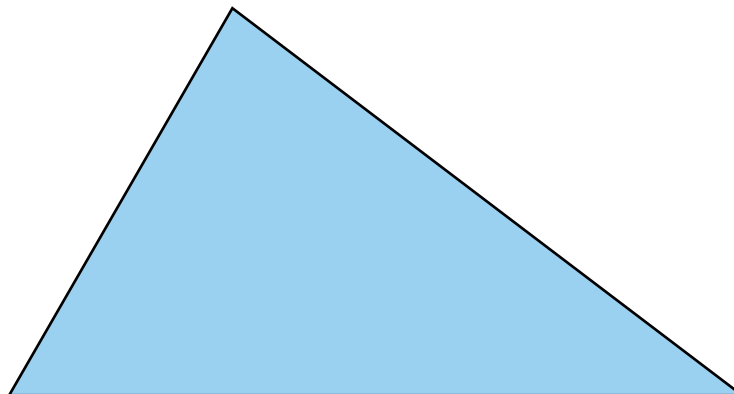
Prove that this triangle matches the formula. Cut out the triangle below and use it here.



Write the measures $B = 8\text{cm}$ and $H = 6\text{cm}$ on the image above.
Write the formula for the area of the triangle then solve it.

$$\begin{aligned} \text{Area of Triangle} &= \frac{1}{2} \text{ Base} \times \text{Height} \\ &= \frac{1}{2} \times 8\text{cm} \times 6\text{cm} \\ &= \frac{1}{2} \times 48\text{cm}^2 \\ &= 24\text{cm}^2 \end{aligned}$$

Cut out this shape, cut the triangle in half and glue it on the image above to prove that the area of a triangle is half of the base x height.

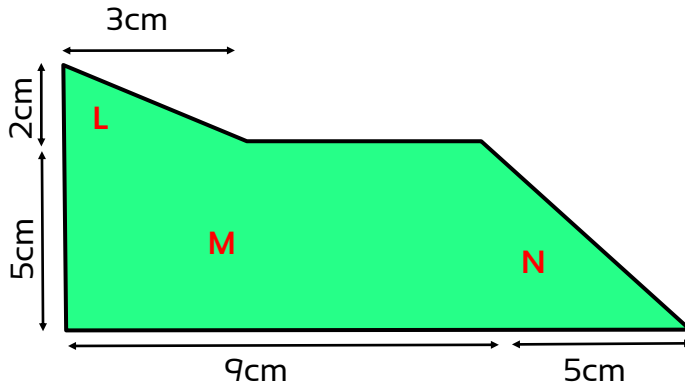


ANSWERS

Find the missing side measures, then add.
(Complete with the slide)

(working space)

1)

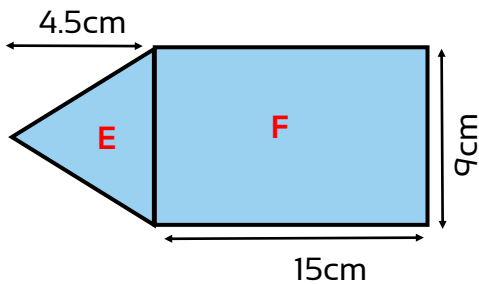


$$\begin{aligned} \text{Area of L} &= 3 \\ \text{Area of M} &= 45 \\ \text{Area of N} &= 12.5 \end{aligned}$$

$$\underline{\underline{60.5\text{cm}^2}}$$

Work through these on your own

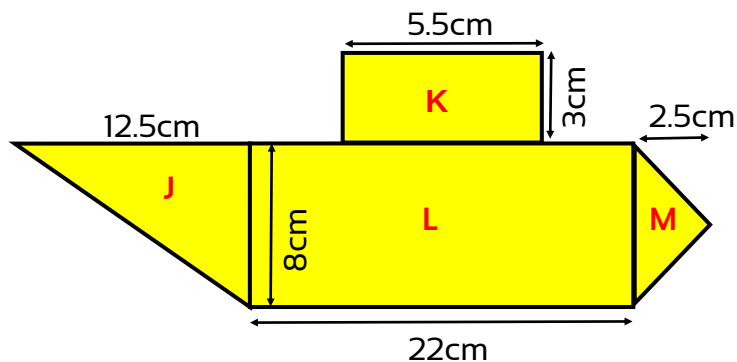
2)



$$\begin{aligned} \text{Area of E} &= 20.25 \\ \text{Area of F} &= 135 \end{aligned}$$

$$\underline{\underline{155.25\text{cm}^2}}$$

3)



$$\begin{aligned} \text{Area of J} &= 100 \\ \text{Area of K} &= 16.5 \\ \text{Area of L} &= 176 \\ \text{Area of M} &= 20 \end{aligned}$$

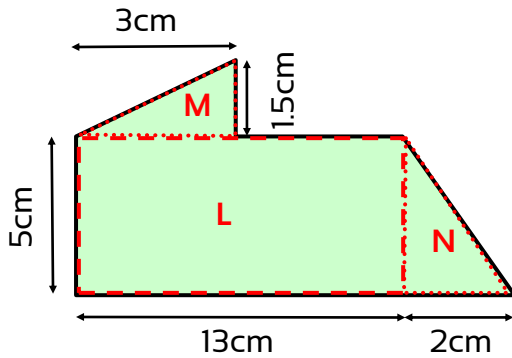
$$\underline{\underline{312.5\text{cm}^2}}$$

ANSWERS

Find the missing side measures, then add.
(Complete with the slide)

(working space)

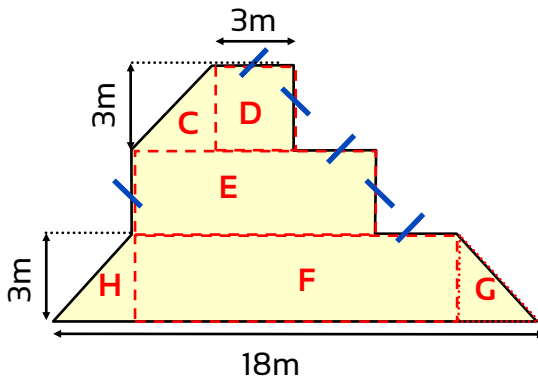
1)



$$\begin{array}{r}
 \text{Area of L} = 65 \\
 \text{Area of M} = 2.25 \\
 \text{Area of N} = 5 \\
 \hline
 72.25\text{cm}^2
 \end{array}$$

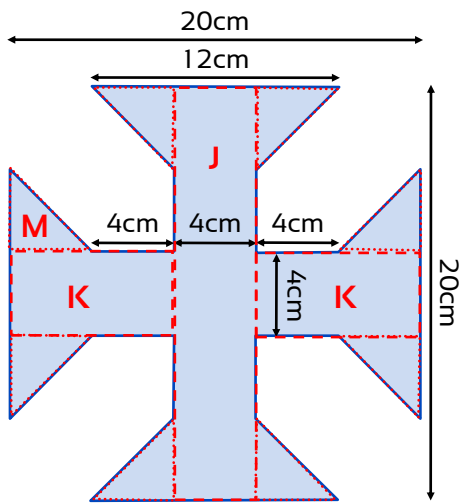
Work through these on your own

2)



$$\begin{array}{r}
 \text{Area of C} = 4.5 \\
 \text{Area of D} = 9 \\
 \text{Area of E} = 27 \\
 \text{Area of F} = 36 \\
 \text{Area of G} = 4.5 \\
 \text{Area of H} = 4.5 \\
 \hline
 85.5\text{m}^2
 \end{array}$$

3)



$$\begin{array}{r}
 \text{Area of J} = 80 \\
 \text{Area of 2 x K} = 64 \\
 \text{Area of 8 x M} = 64 \\
 \hline
 208\text{cm}^2
 \end{array}$$