# AREA

## A AREA UNITS

### A.1 APPROPRIATE UNITS

**MCQ 1:** Choose the most appropriate unit of measure for the area of a bedroom.

☐ Square Meter

☐ Square Kilometer

☐ Square Centimeter

**MCQ 2:** Choose the most appropriate unit of measure for the area of Hawaii Island.

☐ Square Meter

☐ Square Kilometer

☐ Square Centimeter

**MCQ 3:** Choose the most appropriate unit of measure for the area of a postage stamp.

☐ Square Meter

☐ Square Kilometer

☐ Square Centimeter

**MCQ 4:** Choose the most appropriate unit of measure for the area of a classroom wall.

☐ Square Meter

☐ Square Kilometer

☐ Square Centimeter

### A.2 CONVERTING

**Ex 5:** 24.5 $m^2$ = ☐ $cm^2$

**Ex 6:** 5 000 $cm^2$ = ☐ $m^2$

**Ex 7:** 0.25 $cm^2$ = ☐ $mm^2$

**Ex 8:** 534 $mm^2$ = ☐ $cm^2$

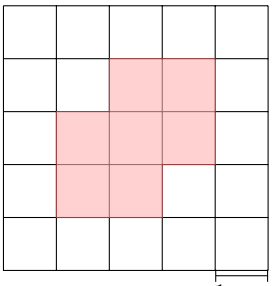
**Ex 9:** 3.5 ha = ☐ $m^2$

**Ex 10:** 6 000 $m^2$ = ☐ ha

## B DEFINITION

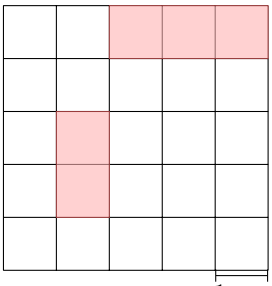
### B.1 COUNTING

**Ex 11:** Find the area of the red figure :



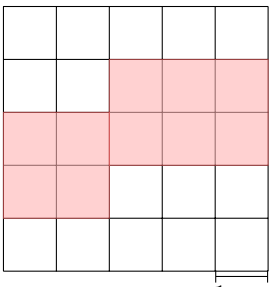

$A =$ ☐ $cm^2$

**Ex 12:** Find the area of the red figure :



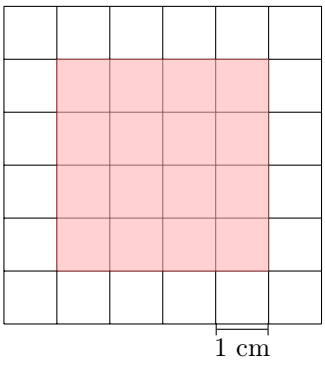

$A =$ ☐ $cm^2$

**Ex 13:** Find the area of the red figure :




$A =$ ☐ $cm^2$

**Ex 14:** Find the area of the red figure :

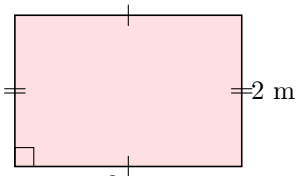



$A =$ ☐ $cm^2$

## C AREA OF USUAL FIGURES

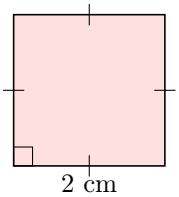
### C.1 DIRECT APPLICATIONS

**Ex 15:** Find the area of the figure



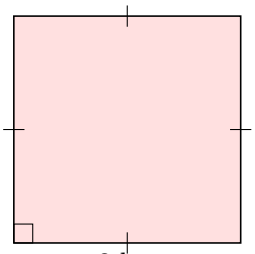

$A =$ ☐ $m^2$

**Ex 16:** Find the area of the figure



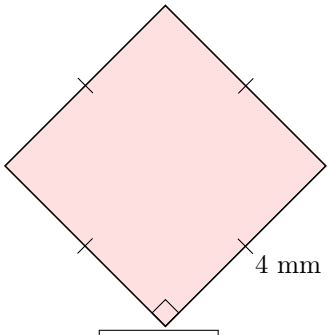

$A =$ ☐ $cm^2$

**Ex 17:** Find the area of the figure



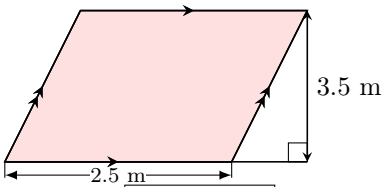

$A =$ ☐ $km^2$

**Ex 18:** Find the area of the figure



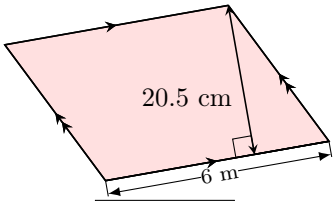

$A =$ ☐ $mm^2$

**Ex 19:** Find the area of the figure (you can use a calculator)



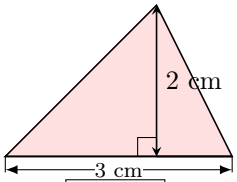

$A =$ ☐ $m^2$

**Ex 20:** Find the area of the figure (you can use a calculator)



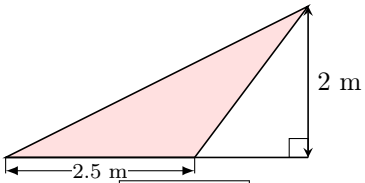

$A =$ ☐ $cm^2$

**Ex 21:** Find the area of the figure



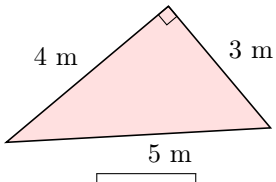

$A =$ ☐ $cm^2$

**Ex 22:** Find the area of the figure



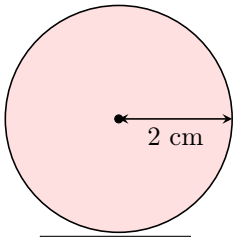

$A =$ ☐ $cm^2$

**Ex 23:** Find the area of the figure



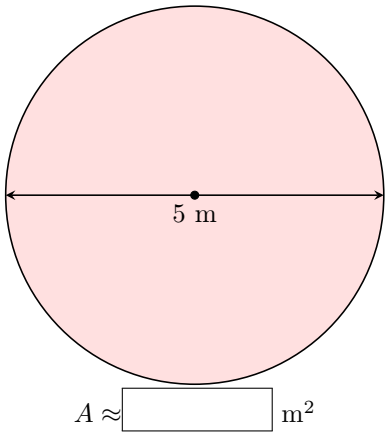

$A =$ ☐ $m^2$

**Ex 24:** Use a calculator to find the area of the figure (round at 1 decimal place)



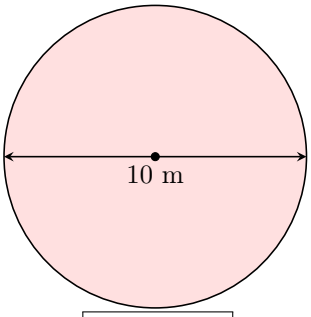

$A \approx$ ☐ $cm^2$

**Ex 25:** Use a calculator to find the area of the figure (round to 1 decimal place)




$A \approx$ ☐ $m^2$

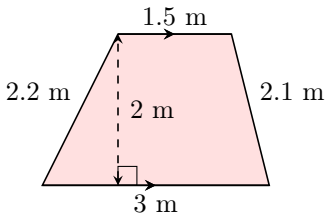
**Ex 26:** Use a calculator to find the area of the figure (round to 1 decimal place)




$A \approx$ ☐ $m^2$

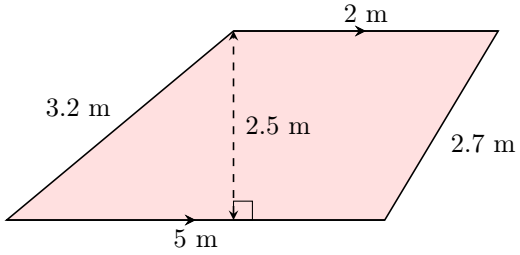
## C.2 TRAPEZIUM

**Ex 27:** Use a calculator to find the area of the figure (round to 1 decimal place)



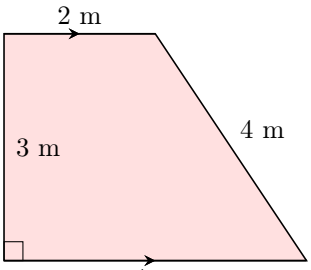

$A =$ ☐ $m^2$

**Ex 28:** Use a calculator to find the area of the figure (round to 1 decimal place)



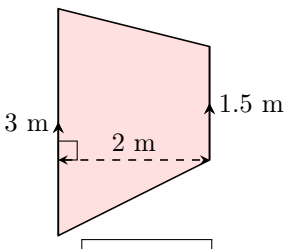

$A =$ ☐ $m^2$

**Ex 29:** Use a calculator to find the area of the figure (round to 1 decimal place)




$A =$ ☐ $m^2$

**Ex 30:** Use a calculator to find the area of the figure (round to 1 decimal place)




$A =$ ☐ $m^2$

## C.3 WORD PROBLEMS

**Ex 31:** A rectangular terrace is 8 m long and 5 m wide. Find the area of the terrace and the cost to tile it if the tiling costs 20 dollars per square meter.

$A =$ ☐ $m^2$ and cost= ☐ dollars

**Ex 32:** A triangular garden has a base of 12 m and a height of 8 m. Find the area of the garden and the cost to plant grass if the cost is 5 dollars per square meter.

$A =$ ☐ $m^2$ and cost= ☐ dollars

**Ex 33:** A rectangular wall is 8 m long and 5 m high. Find the area of the wall and the cost to paint it if the paint costs 20 dollars per square meter.

$A =$ ☐ $m^2$ and cost= ☐ dollars

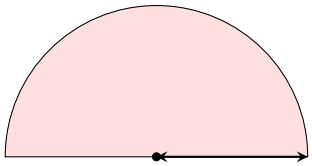
**Ex 34:** A triangular roof has a base of 10 m and a height of 6 m. Find the area of the roof and the cost to cover it with wood if the wood costs 15 dollars per square meter.

$A =$ ☐ $m^2$ and cost= ☐ dollars

# D AREA OF COMPOSITE FIGURES

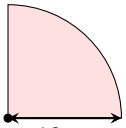
## D.1 PART OF CIRCLES

**Ex 35:** Use a calculator to find the area of the figure (round to 1 decimal place)



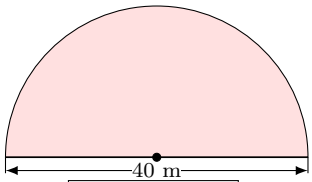

$A \approx$ ☐ $cm^2$

**Ex 36:** Use a calculator to find the area of the figure (round at 1 decimal place)




$A \approx$ ☐ $m^2$

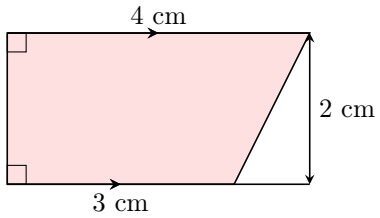
**Ex 37:** Use a calculator to find the area of the figure (round to 1 decimal place)




$A \approx$ ☐ $cm^2$

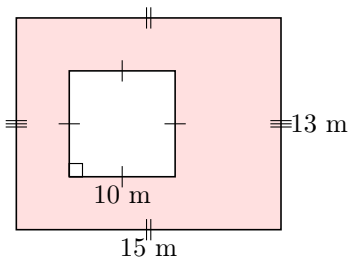
## D.2 ADD OR SUB

**Ex 38:** Find the area of the figure



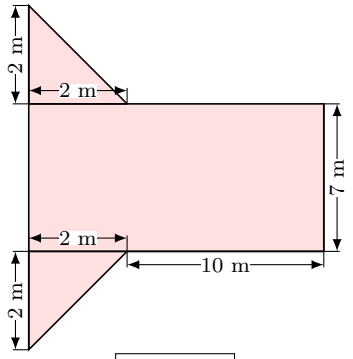

$A=$ ☐ $\text{cm}^2$

**Ex 39:** Find the area of the figure



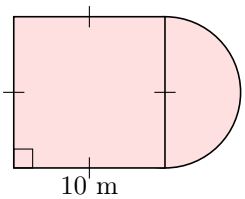

$A=$ ☐ $\text{m}^2$

**Ex 40:** Find the area of the figure



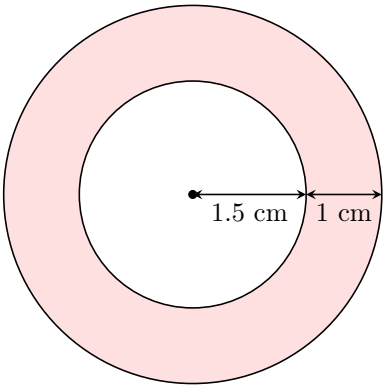

$A=$ ☐ $\text{m}^2$

**MCQ 41:** Choose the correct formula to calculate the the area of the figure



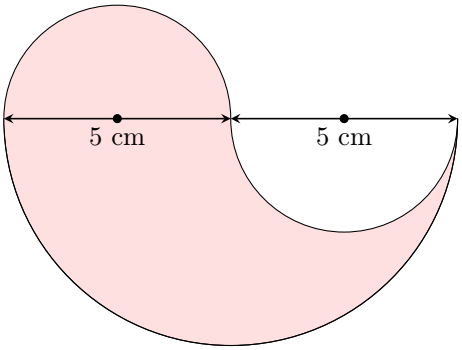

- ☐ $A = 10 \times 10 + \pi \times 5 \times 5$
- ☐ $A = 10 \times 10 + \frac{\pi \times 5 \times 5}{2}$
- ☐ $A = 10 \times 10 + \frac{\pi \times 10 \times 10}{2}$
- ☐ $A = 10 \times 10 + \pi \times 10 \times 10$

**MCQ 42:** Choose the correct formula to calculate the the area of the figure




- ☐ $A = 2 \times \pi \times 2.5$
- ☐ $A = \pi \times 1.5 \times 1.5 - \pi \times 1 \times 1$
- ☐ $A = \pi \times 2.5 \times 2.5$
- ☐ $A = \pi \times 2.5 \times 2.5 - \pi \times 1.5 \times 1.5$

**MCQ 43:** Choose the correct formula to calculate the the area of the figure




- ☐ $A = \frac{\pi \times 5 \times 5}{2}$
- ☐ $A = \pi \times 5 \times 5$
- ☐ $A = \frac{\pi \times 5 \times 5}{2} + \frac{\pi \times 2.5 \times 2.5}{2}$
- ☐ $A = \pi \times 2.5 \times 2.5$