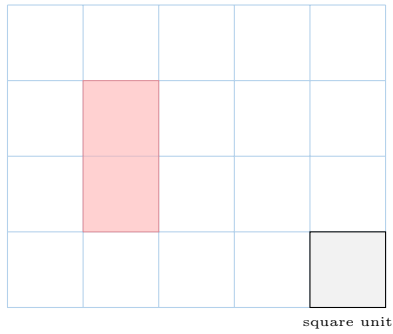


AREA FORMULAS

A AREA

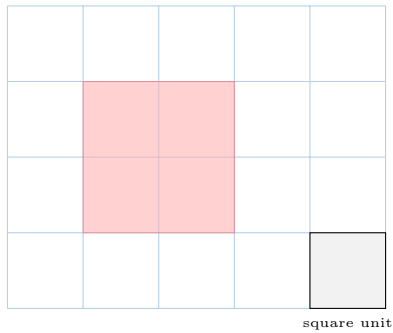
A.1 FINDING AREA OF A SHAPE

Ex 1: What is the area of the red figure?



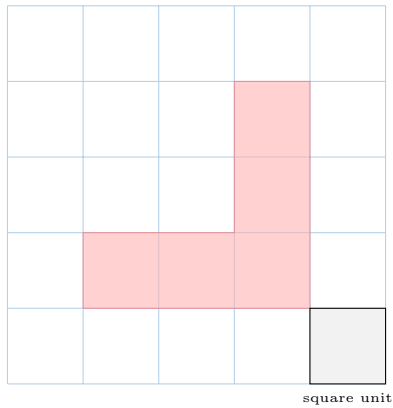
square units

Ex 2: What is the area of the red figure?



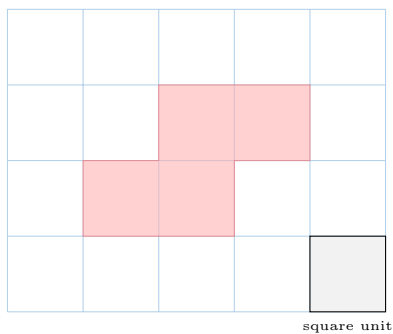
square units

Ex 3: What is the area of the red figure?



square units

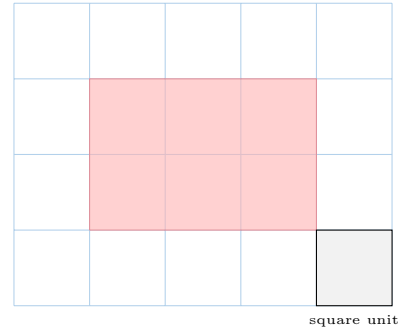
Ex 4: What is the area of the red figure?



square unit

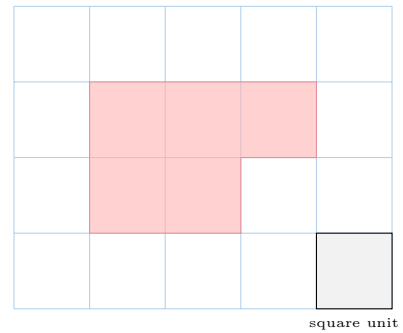
square units

Ex 5: What is the area of the red figure?



square units

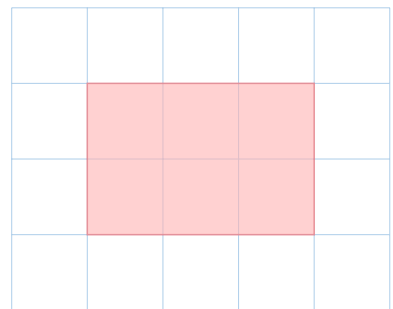
Ex 6: What is the area of the red figure?



square units

A.2 BUILDING FORMULAS

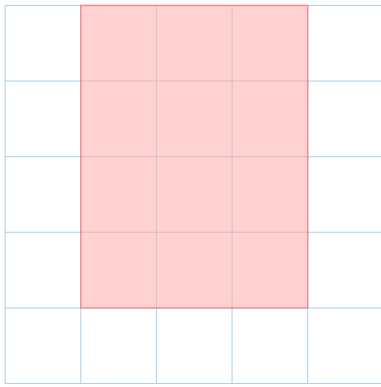
MCQ 7: What is the area of the red rectangle?



Choose the 4 correct answers:

- ☐ $2 + 2 + 2$
- ☐ $3 + 3$
- ☐ $3 + 2 + 3 + 2$
- ☐ 2×3
- ☐ 3×2

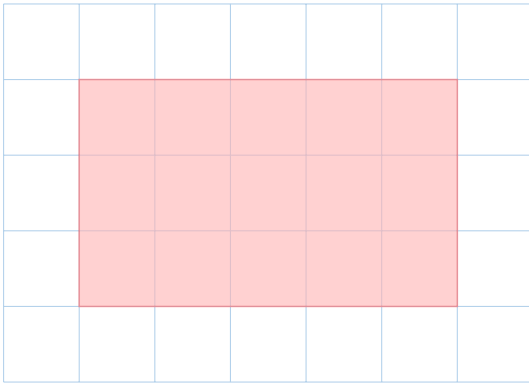
MCQ 8: What is the area of the red rectangle?



Choose 4 correct answers:

- ☐ $3 + 4 + 3 + 4$
☐ $4 + 4 + 4$
☐ $3 + 3 + 3 + 3$
☐ 4×3
☐ 3×4

MCQ 9: What is the area of the red rectangle?



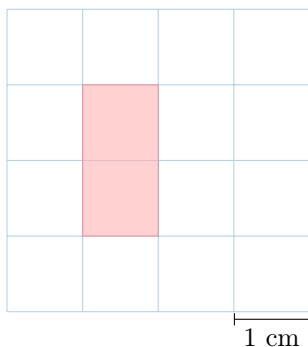
Choose the 4 correct answers:

- ☐ $3 + 3 + 3 + 3 + 3$
☐ $5 + 5 + 5$
☐ $5 + 3 + 5 + 3$
☐ 3×5
☐ 5×3

B UNITS OF AREA

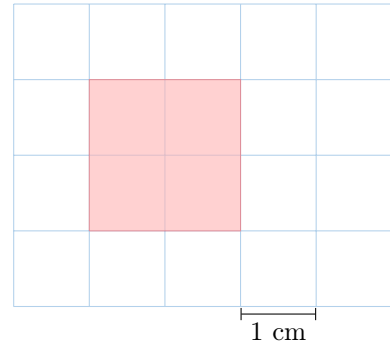
B.1 FINDING AREA OF A SHAPE

Ex 10: What is the area of the red figure?



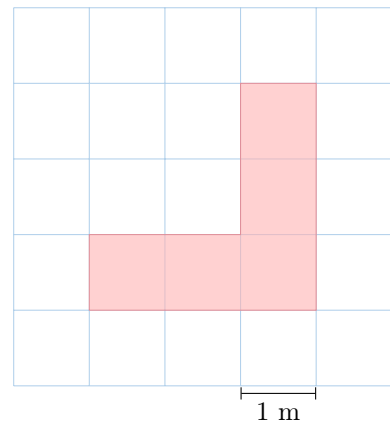
☐ cm^2
☐ m^2

Ex 11: What is the area of the red figure?



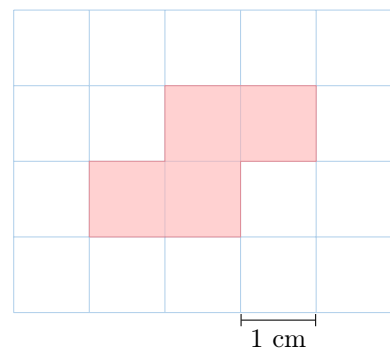
☐ cm^2
☐ m^2

Ex 12: What is the area of the red figure?



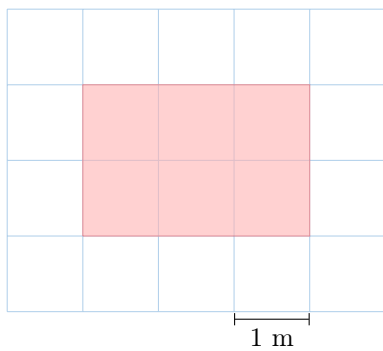
☐ cm^2
☐ m^2

Ex 13: What is the area of the red figure?



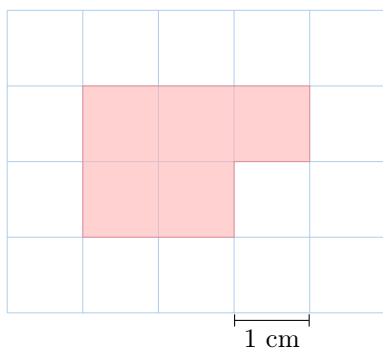
☐ cm^2
☐ m^2

Ex 14: What is the area of the red figure?



☐ cm²
☐ m²

Ex 15: What is the area of the red figure?



☐ cm²
☐ m²

B.2 CHOOSING UNITS FOR AREA

MCQ 16: What unit will be used to measure the area of your bedroom?

Choose 1 answer:

- ☐ Square millimeters
- ☐ Square centimeters
- ☐ Square meters
- ☐ Square kilometers

MCQ 17: What unit will be used to measure the area of a piece of paper?

Choose 1 answer:

- ☐ Square millimeters
- ☐ Square centimeters
- ☐ Square meters
- ☐ Square kilometers

MCQ 18: What unit will be used to measure the area of a country?

Choose 1 answer:

- ☐ Square millimeters
- ☐ Square centimeters
- ☐ Square meters

☐ Square kilometers

MCQ 19: What unit will be used to measure the area of a playground?

Choose 1 answer:

- ☐ Square millimeters
- ☐ Square centimeters
- ☐ Square meters
- ☐ Square kilometers

MCQ 20: What unit will be used to measure the area of a tiny sticker like a glitter dot?

Choose 1 answer:

- ☐ Square millimeters
- ☐ Square centimeters
- ☐ Square meters
- ☐ Square kilometers

C CONVERSION OF AREA UNITS

C.1 CONVERTING AREA UNITS

Ex 21: Convert:

$$3 \text{ cm}^2 = \boxed{} \text{ mm}^2.$$

Ex 22: Convert:

$$5\,000 \text{ mm}^2 = \boxed{} \text{ cm}^2.$$

Ex 23: Convert:

$$6 \text{ m}^2 = \boxed{} \text{ cm}^2.$$

Ex 24: Convert:

$$90\,000 \text{ cm}^2 = \boxed{} \text{ m}^2.$$

C.2 CONVERTING AREA UNITS WITH DECIMAL NUMBERS

Ex 25: Convert:

$$24.5 \text{ m}^2 = \boxed{} \text{ cm}^2.$$

Ex 26: Convert:

$$5\,000 \text{ cm}^2 = \boxed{} \text{ m}^2.$$

Ex 27: Convert:

$$0.25 \text{ cm}^2 = \boxed{} \text{ mm}^2.$$

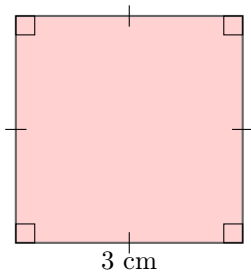
Ex 28: Convert:

$$534 \text{ mm}^2 = \boxed{} \text{ cm}^2.$$

D AREA OF A RECTANGLE OR A SQUARE

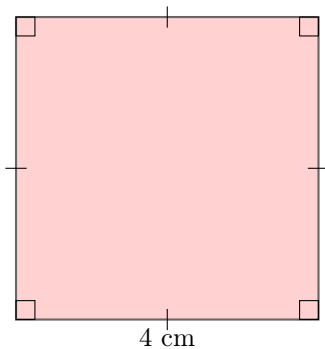
D.1 FINDING AREAS OF SQUARES AND RECTANGLES

Ex 29: What is the area of the red square?



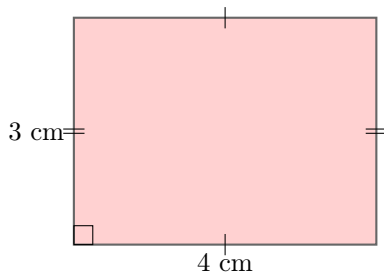
cm^2

Ex 30: What is the area of the red square?



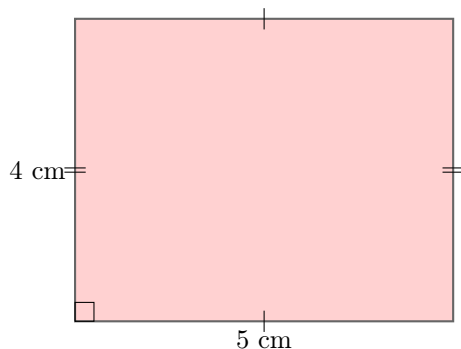
cm^2

Ex 31: What is the area of the red rectangle?



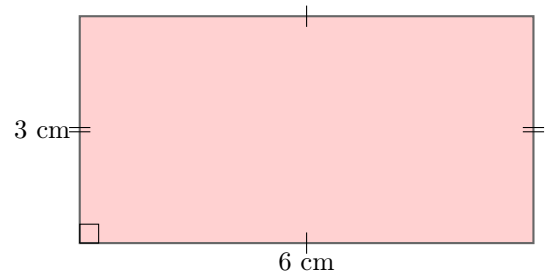
cm^2

Ex 32: What is the area of the red rectangle?



cm^2

Ex 33: What is the area of the red rectangle?

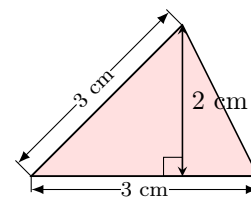


cm^2

E AREA OF A TRIANGLE

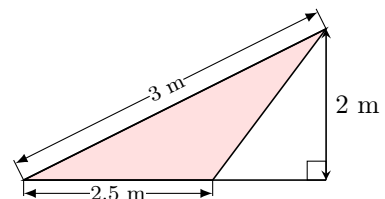
E.1 FINDING AREAS OF TRIANGLES

Ex 34: Find the area of the figure



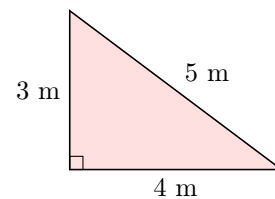
$A =$ cm^2

Ex 35: Find the area of the figure



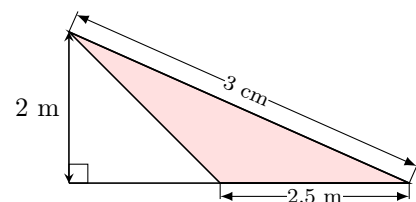
$A =$ cm^2

Ex 36: Find the area of the figure



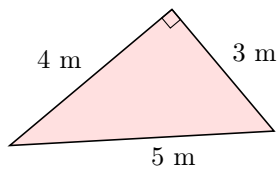
$A =$ m^2

Ex 37: Find the area of the figure



$A =$ cm^2

Ex 38: Find the area of the figure

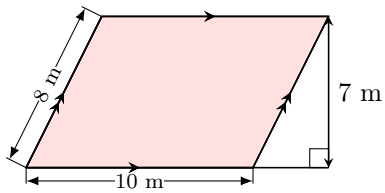


$$A = \boxed{} \text{ m}^2$$

F AREA OF A PARALLELOGRAM

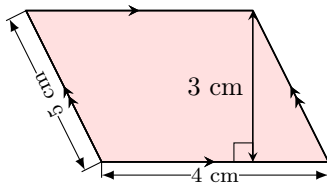
F.1 FINDING AREAS OF PARALLELOGRAMS

Ex 39: Find the area of the figure



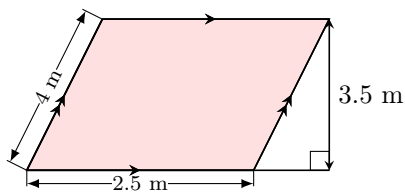
$$A = \boxed{} \text{ m}^2$$

Ex 40: Find the area of the figure



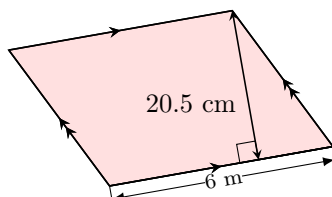
$$A = \boxed{} \text{ cm}^2$$

Ex 41: Find the area of the figure (you can use a calculator)



$$A = \boxed{} \text{ m}^2$$

Ex 42: Find the area of the figure (you can use a calculator)

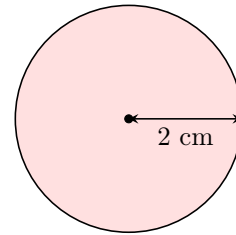


$$A = \boxed{} \text{ cm}^2$$

G AREA OF A CIRCLE

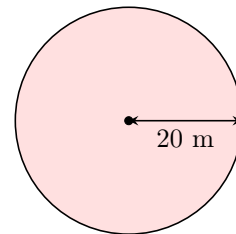
G.1 FINDING AREAS OF CIRCLES

Ex 43: Find the area of the figure (round at 1 decimal place)



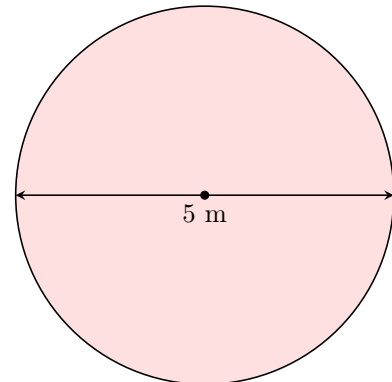
$$A \approx \boxed{} \text{ cm}^2$$

Ex 44: Find the area of the figure (round to 1 decimal place)



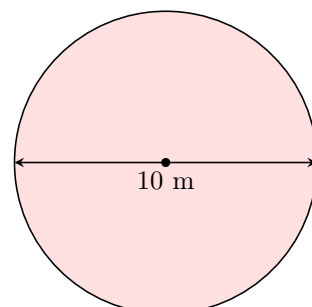
$$A \approx \boxed{} \text{ m}^2$$

Ex 45: Find the area of the figure (round to 1 decimal place)




$$A \approx \boxed{} \text{ m}^2$$

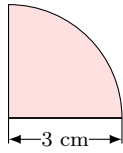
Ex 46: Find the area of the figure (round to 1 decimal place)




$$A \approx \boxed{} \text{ m}^2$$

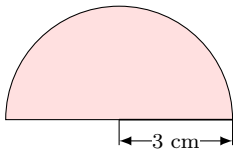
G.2 FINDING AREA OF CIRCULAR SECTORS

Ex 47:  Find the area of the quarter circle: (Round to 1 decimal place)




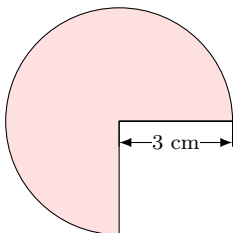
$$A = \boxed{} \text{ cm}^2$$

Ex 48:  Find the area of the half circle: (Round to 1 decimal place)




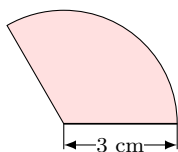
$$A = \boxed{} \text{ cm}^2$$

Ex 49:  Find the area of the three-quarter circle: (Round to 1 decimal place)



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


Ex 50:  Find the area of the one-third circle: (Round to 1 decimal place)



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

H AREA FORMULAS


H.1 SOLVING PROBLEMS

Ex 51:  A rectangular terrace is 8 m long and 5 m wide. The tiling costs 20 dollars per square meter. What is the area of the terrace?

$$\boxed{} \text{ m}^2$$

What is the cost to tile the terrace?


$$\boxed{} \text{ dollars}$$

Ex 52:  A triangular garden has a base of 12 m and a height of 8 m. The cost to plant grass is 5 dollars per square meter. What is the area of the garden?

$$\boxed{} \text{ m}^2$$

What is the cost to plant grass in the garden?


$$\boxed{} \text{ dollars}$$

Ex 53:  A rectangular wall is 8 m long and 5 m high. The cost to paint the wall is 20 dollars per square meter. What is the area of the wall?

$$\boxed{} \text{ m}^2$$

What is the cost to paint the wall?


$$\boxed{} \text{ dollars}$$

Ex 54:  A triangular roof has a base of 10 m and a height of 6 m. The cost to cover the roof with wood is 15 dollars per square meter. What is the area of the roof?

$$\boxed{} \text{ m}^2$$

What is the cost to cover the roof with wood?

$$\boxed{} \text{ dollars}$$

Ex 55:  A circular garden has a radius of 4 m. The cost to plant flowers is 10 dollars per square meter. What is the area of the garden? (Round to 2 decimal places)


$$\boxed{} \text{ m}^2$$

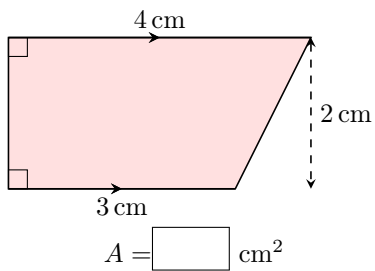
What is the cost to plant flowers in the garden? (Round to 1 decimal place)


$$\boxed{} \text{ dollars}$$

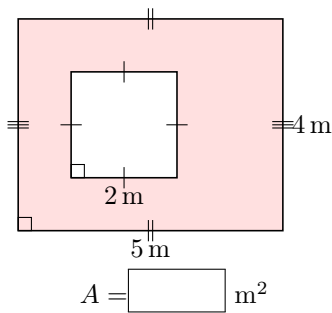
I AREA OF COMPOSITE FIGURES


I.1 FINDING AREAS OF COMPOSITE FIGURES

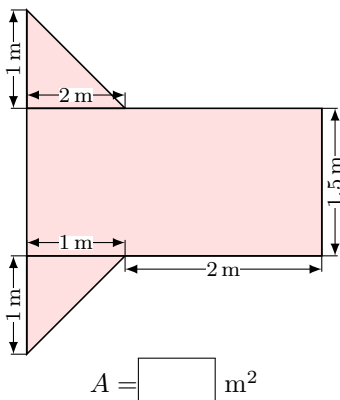
Ex 56:  Find the area of the figure:




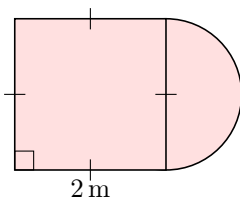
Ex 57:  Find the area of the figure:




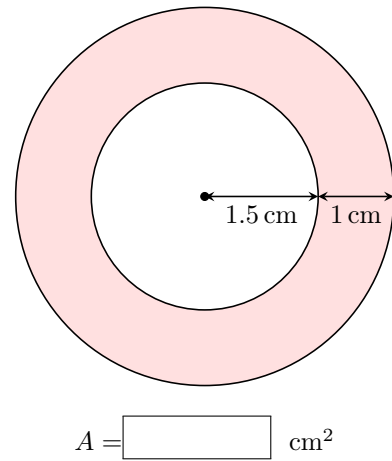
Ex 58:  Find the area of the figure:




Ex 59:  Calculate the area of the figure:



Ex 60:  Calculate the area of the figure: (Round to 2 decimal places)



Ex 61:  Calculate the area of the figure: (Round to 2 decimal places)

