Area in Square Meters/Centimeters

FREE Worksheet - 3

Time: 20 minutes

(Detailed solutions at the end)

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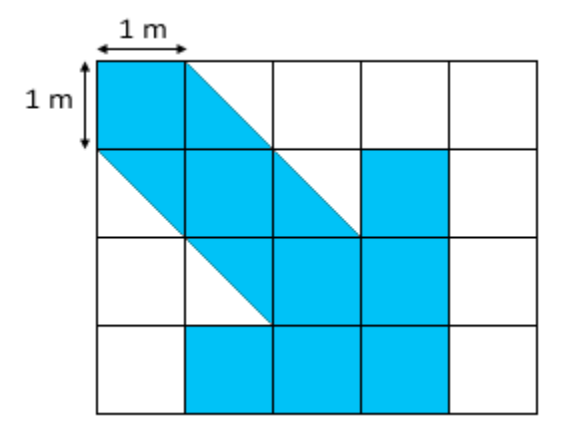
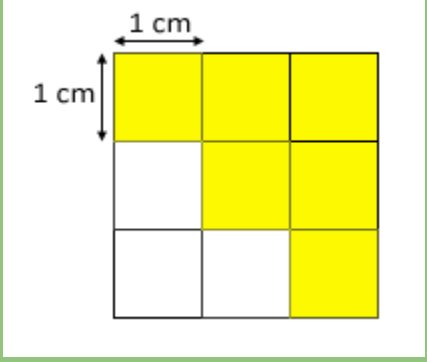
1. What is the area of the shaded figure below?



Answer: _____ m^2

2. What is the area of the shaded figure below?



Answer: _____ cm^2

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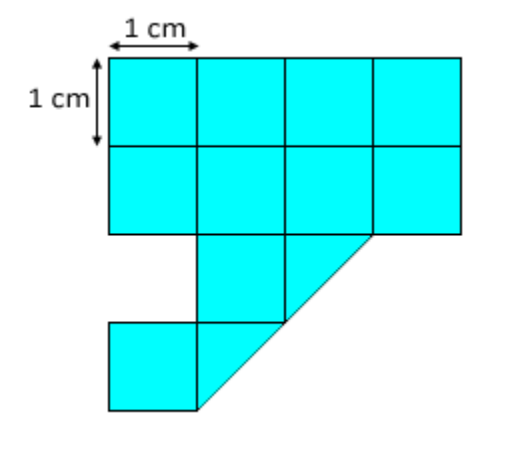
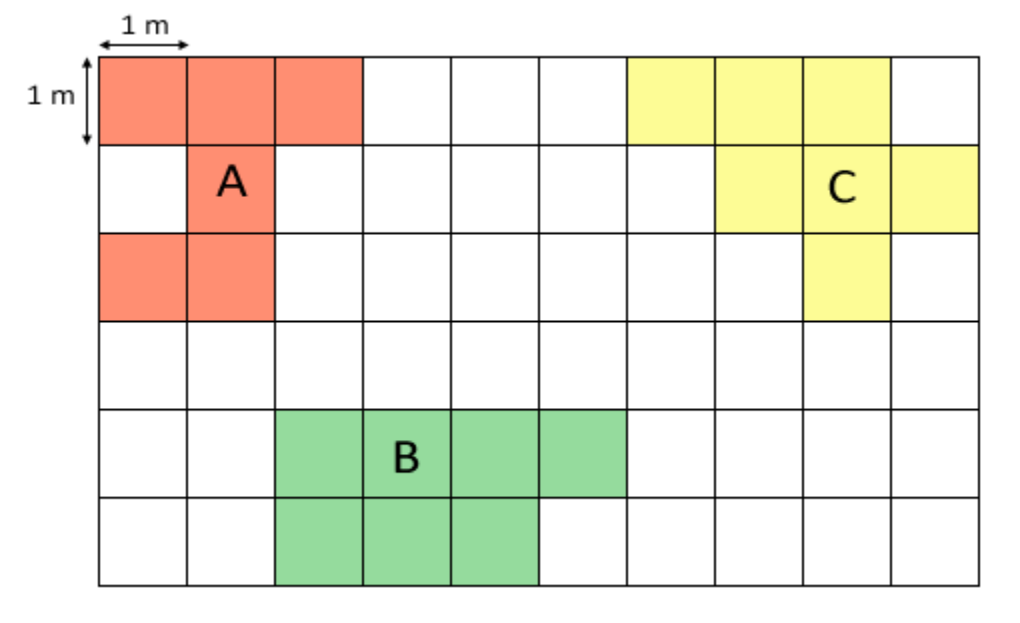
3. What is the area of the shaded figure below?



Answer: _____ cm^2

4. Which figure has an area of 6 m^2?

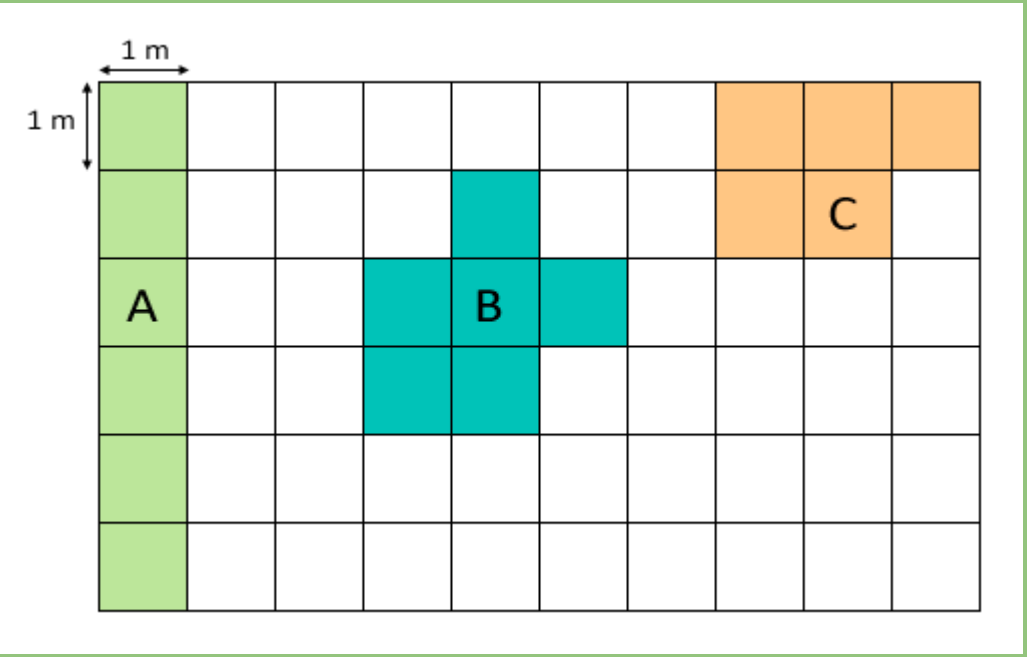


a. Figure A

b. Figure B

c. Figure C

5. Which of the figures below has the smallest area?



a. Figure A

b. Figure B

c. Figure C

SOLUTIONS

Problem 1

Number of full shaded squares in the figure = 8

Number of half shaded squares in the figure = 4 = 2 full shaded squares

Total number of shaded squares in the figure = 8 + 2 = 10

The figure is made up of 10 1-m squares.

So, the area of the shaded figure is 10 m^2.

Problem 2

Number of shaded squares in the figure = 6

The figure is made up of 6 1-cm squares.

The area of each 1-cm square is 1 cm^2.

So, the area of the shaded figure is 6 cm^2.

Problem 3

Number of full shaded squares in the figure = 10

Number of half shaded squares in the figure = 2 = 1 full shaded square

Total number of shaded squares in the figure = 10 + 1 = 11

The figure is made up of 11 1-cm squares.

So, the area of the shaded figure is 11 cm^2.

Problem 4

Number of shaded squares in Figure A = 6
Area of Figure A is 6 m^2.

Number of shaded squares in Figure B = 7
Area of Figure B is 7 m^2.

Number of shaded squares in Figure C = 7
Area of Figure C is 7 m^2.

So, ***Figure A*** has an area of 6 m^2.

Problem 5

Number of shaded squares in Figure A = 6
Area of Figure A is 6 m^2.

Number of shaded squares in Figure B = 6
Area of Figure B is 6 m^2.

Number of shaded squares in Figure C = 5
Area of Figure C is 5 m^2.

So, ***Figure C*** has the smallest area.