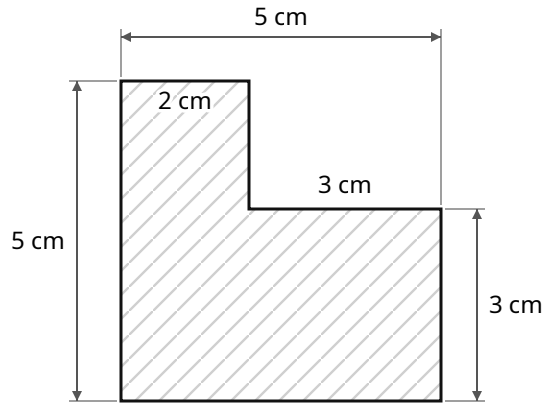
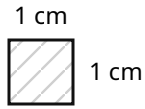




Shape Fitting - set samples - paper 1

1. How many small squares will fit into the large L-shape?



A: 22

B: 16

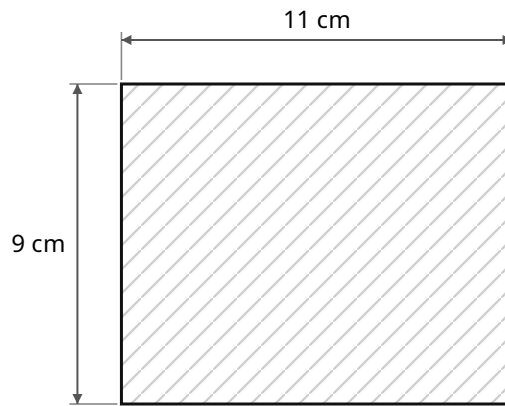
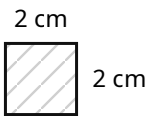
C: 19

D: 24

E: 17

ans _____

2. How many small squares will fit into the large rectangle?



A: 19

B: 18

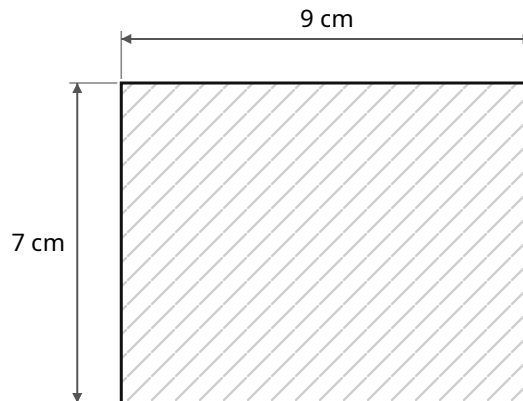
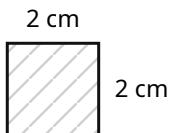
C: 20

D: 23

E: 9

ans _____

3. How many small squares will fit into the large rectangle?



A: 12

B: 13

C: 20

D: 15

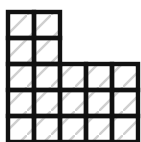
E: 17

ans _____



Shape Fitting - set samples - Answers

1.



Answer: C 19 squares

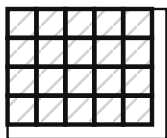
Partition the L-shape into:

Left column: $2 \times 5 \text{ cm} \rightarrow (2/1) \times (5/1) = 2 \times 5 = 10$

Right foot: $3 \times 3 \text{ cm} \rightarrow (3/1) \times (3/1) = 3 \times 3 = 9$

Total squares = 19

2.



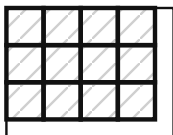
Answer: C 20 squares

Horizontal fit: $11 \text{ cm} / 2 \text{ cm} = 5 \text{ squares (rem 1 cm)}$

Vertical fit: $9 \text{ cm} / 2 \text{ cm} = 4 \text{ squares (rem 1 cm)}$

Total squares = $5 \times 4 = 20$

3.



Answer: A 12 squares

Horizontal fit: $9 \text{ cm} / 2 \text{ cm} = 4 \text{ squares (rem 1 cm)}$

Vertical fit: $7 \text{ cm} / 2 \text{ cm} = 3 \text{ squares (rem 1 cm)}$

Total squares = $4 \times 3 = 12$