

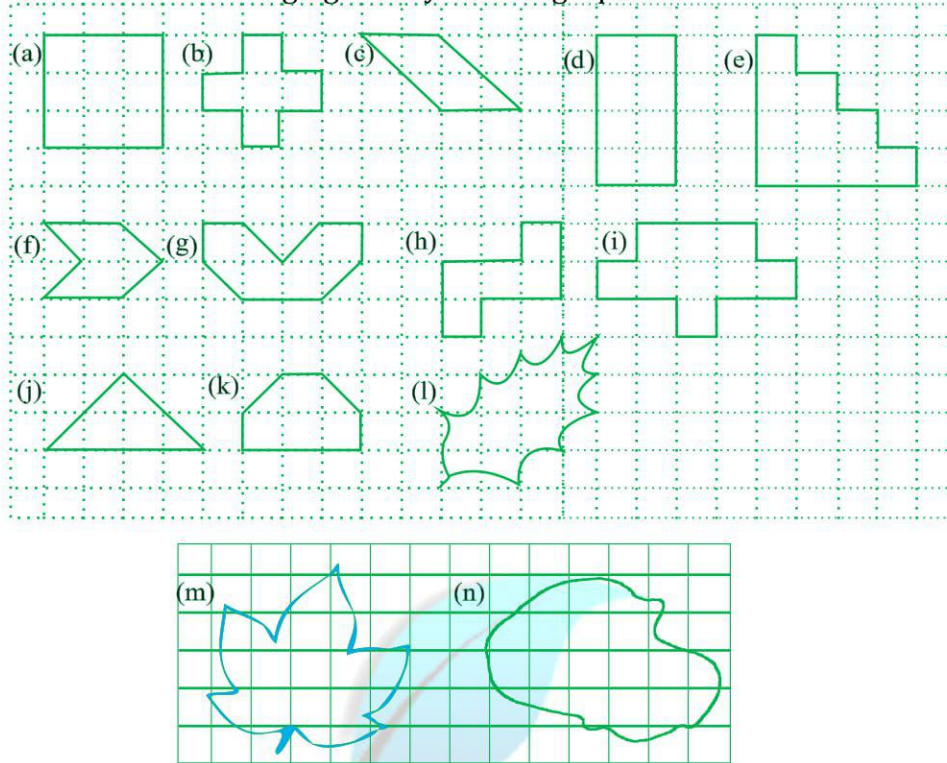
# Mathematics

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(Chapter - 10) (Mensuration)  
(Class - VI)

## Exercise 10.2

### Question 1:

Find the areas of the following figures by counting squares:



### Answer 1:

- (a) Number of filled square = 9  
 $\therefore$  Area covered by squares =  $9 \times 1 = 9$  sq. units
- (b) Number of filled squares = 5  
 $\therefore$  Area covered by filled squares =  $5 \times 1 = 5$  sq. units
- (c) Number of full filled squares = 2  
 Number of half-filled squares = 4  
 $\therefore$  Area covered by full filled squares =  $2 \times 1 = 2$  sq. units  
 And Area covered by half-filled squares =  $4 \times \frac{1}{2} = 2$  sq. units  
 $\therefore$  Total area =  $2 + 2 = 4$  sq. units
- (d) Number of filled squares = 8  
 $\therefore$  Area covered by filled squares =  $8 \times 1 = 8$  sq. units
- (e) Number of filled squares = 10  
 $\therefore$  Area covered by filled squares =  $10 \times 1 = 10$  sq. units
- (f) Number of full filled squares = 2  
 Number of half-filled squares = 4  
 $\therefore$  Area covered by full filled squares =  $2 \times 1 = 2$  sq. units  
 And Area covered by half-filled squares =  $4 \times \frac{1}{2} = 2$  sq. units  
 $\therefore$  Total area =  $2 + 2 = 4$  sq. units

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- (g) Number of full filled squares = 4  
Number of half-filled squares = 4  
 $\therefore$  Area covered by full filled squares =  $4 \times 1 = 4$  sq. units  
And Area covered by half-filled squares =  $4 \times \frac{1}{2} = 2$  sq. units  
 $\therefore$  Total area =  $4 + 2 = 6$  sq. units
- (h) Number of filled squares = 5  
 $\therefore$  Area covered by filled squares =  $5 \times 1 = 5$  sq. units
- (i) Number of filled squares = 9  
 $\therefore$  Area covered by filled squares =  $9 \times 1 = 9$  sq. units
- (j) Number of full filled squares = 2  
Number of half-filled squares = 4  
 $\therefore$  Area covered by full filled squares =  $2 \times 1 = 2$  sq. units  
And Area covered by half-filled squares =  $4 \times \frac{1}{2} = 2$  sq. units  
 $\therefore$  Total area =  $2 + 2 = 4$  sq. units
- (k) Number of full filled squares = 4  
Number of half-filled squares = 2  
 $\therefore$  Area covered by full filled squares =  $4 \times 1 = 4$  sq. units  
And Area covered by half-filled squares =  $2 \times \frac{1}{2} = 1$  sq. units  
 $\therefore$  Total area =  $4 + 1 = 5$  sq. units
- (l) Number of full filled squares = 3  
Number of half-filled squares = 10  
 $\therefore$  Area covered by full filled squares =  $3 \times 1 = 3$  sq. units  
And Area covered by half-filled squares =  $10 \times \frac{1}{2} = 5$  sq. units  
 $\therefore$  Total area =  $3 + 5 = 8$  sq. units
- (m) Number of full filled squares = 7  
Number of half-filled squares = 14  
 $\therefore$  Area covered by full filled squares =  $7 \times 1 = 7$  sq. units  
And Area covered by half-filled squares =  $14 \times \frac{1}{2} = 7$  sq. units  
 $\therefore$  Total area =  $7 + 7 = 14$  sq. units
- (n) Number of full filled squares = 10  
Number of half-filled squares = 16  
 $\therefore$  Area covered by full filled squares =  $10 \times 1 = 10$  sq. units  
And Area covered by half-filled squares =  $16 \times \frac{1}{2} = 8$  sq. units  
 $\therefore$  Total area =  $10 + 8 = 18$  sq. units