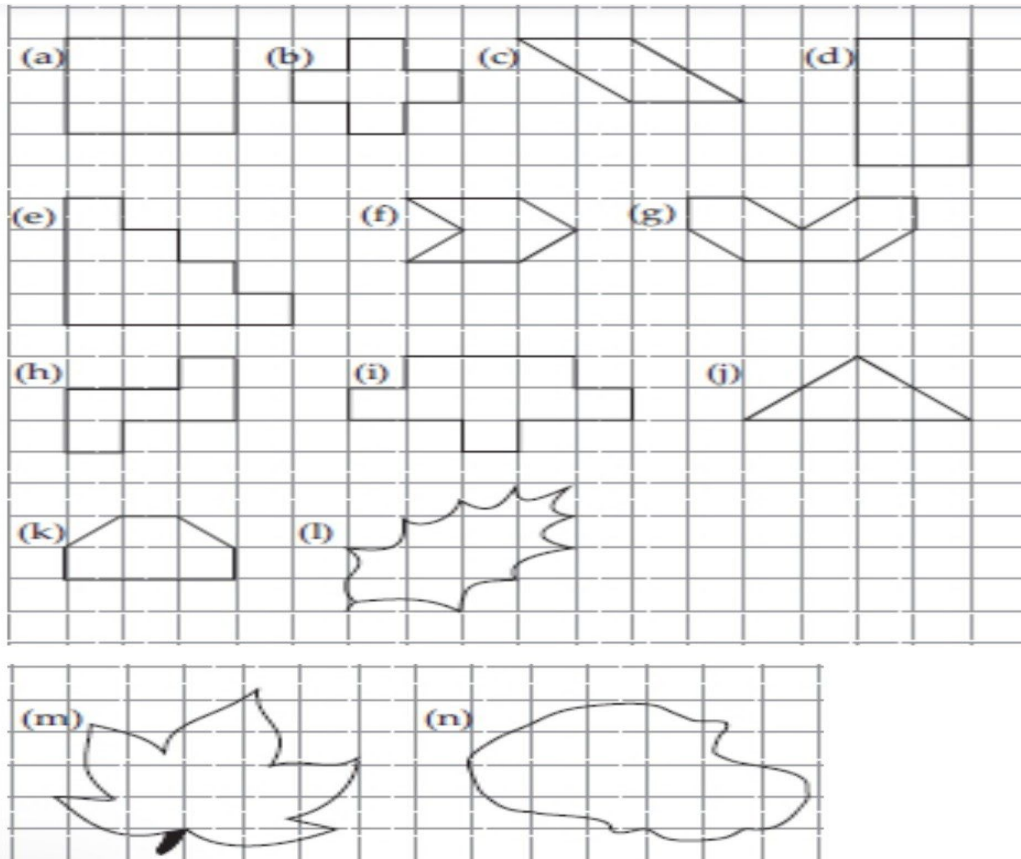


**Class.6 Maths solution(By:Prashant kr.)**

**10.Mensuration**

**Ex-10.2**

**Q.1 Find the areas of the following figures by counting square :**



**SOLUTION:**

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

∴ Area covered by fully-filled squares  
=  $(10 \times 1)$  sq. units = 10 sq. units

(f) Number of fully-filled squares = 2

Number of half-filled squares = 4

∴ Area covered by fully-filled squares  
=  $(2 \times 1)$  sq. units = 2 sq. units

Area covered by half-filled squares  
=  $(4 \times \frac{1}{2})$  sq. units = 2 sq. units

∴ Total area =  $(2 + 2)$  sq. units = 4 sq. units

(g) Number of fully-filled squares = 4

Number of half-filled squares = 4

∴ Area covered by fully-filled squares  
=  $(4 \times 1)$  sq. units = 4 sq. units

Area covered by half-filled squares  
=  $(4 \times \frac{1}{2})$  sq. units = 2 sq. units

∴ Total area =  $(4 + 2)$  sq. units = 6 sq. units

(h) Number of fully-filled squares = 5

∴ Area covered by fully-filled squares  
=  $(5 \times 1)$  sq. units = 5 sq. units

(i) Number of fully-filled squares = 9

∴ Area covered by fully-filled squares  
=  $(9 \times 1)$  sq. units = 9 sq. units

(j) Number of fully-filled squares = 2

Number of half-filled squares = 4

∴ Area covered by fully-filled squares  
=  $(2 \times 1)$  sq. units = 2 sq. units

Area covered by half-filled squares  
=  $(4 \times \frac{1}{2})$  sq. units = 2 sq. units

∴ Total area =  $(2 + 2)$  sq. units = 4 sq. units

(k) Number of fully-filled squares = 4

Number of half-filled squares = 2

∴ Area covered by fully-filled squares  
=  $(4 \times 1)$  sq. units = 4 sq. unit

Area covered by half-filled squares  
=  $(2 \times \frac{1}{2})$  sq. units = 1 sq. units

∴ Total area =  $(4 + 1)$  sq. units = 5 sq. units

(l) Number of fully-filled squares = 2,

Number of half-filled squares = 0,

Number of more than half-filled squares = 6

and number of less than half-filled squares = 6.

Now, estimated area covered by

fully-filled squares = 2 sq. units,

half filled squares = 0 sq. units

more than half-filled squares = 6 sq. units

and less than half-filled squares = 0 sq. unit

$\therefore$  Total area =  $(2 + 0 + 6 + 0)$  sq. units = 8 sq. units.

(m) Number of fully-filled squares = 5

Number of more than half-filled squares = 9

and number of less than half-filled squares = 12

Estimated area covered by

fully-filled squares = 5 sq. units

more than half-filled squares = 9 sq. units

and less than half-filled squares = 0 sq. unit

$\therefore$  Total area =  $(5 + 9 + 0)$  sq. units = 14 sq. units

(n) Number of fully-filled squares = 8

Number of more than half-filled squares = 10

and number of less than half-filled squares = 9

Estimated area covered by

fully-filled squares = 8 sq. units,

more than half-filled squares = 10 sq. units

less than half-filled squares = 0 sq. unit

$\therefore$  Total area =  $(8 + 10 + 0)$  sq. units = 18 sq. units.