EXERCISE 10.2

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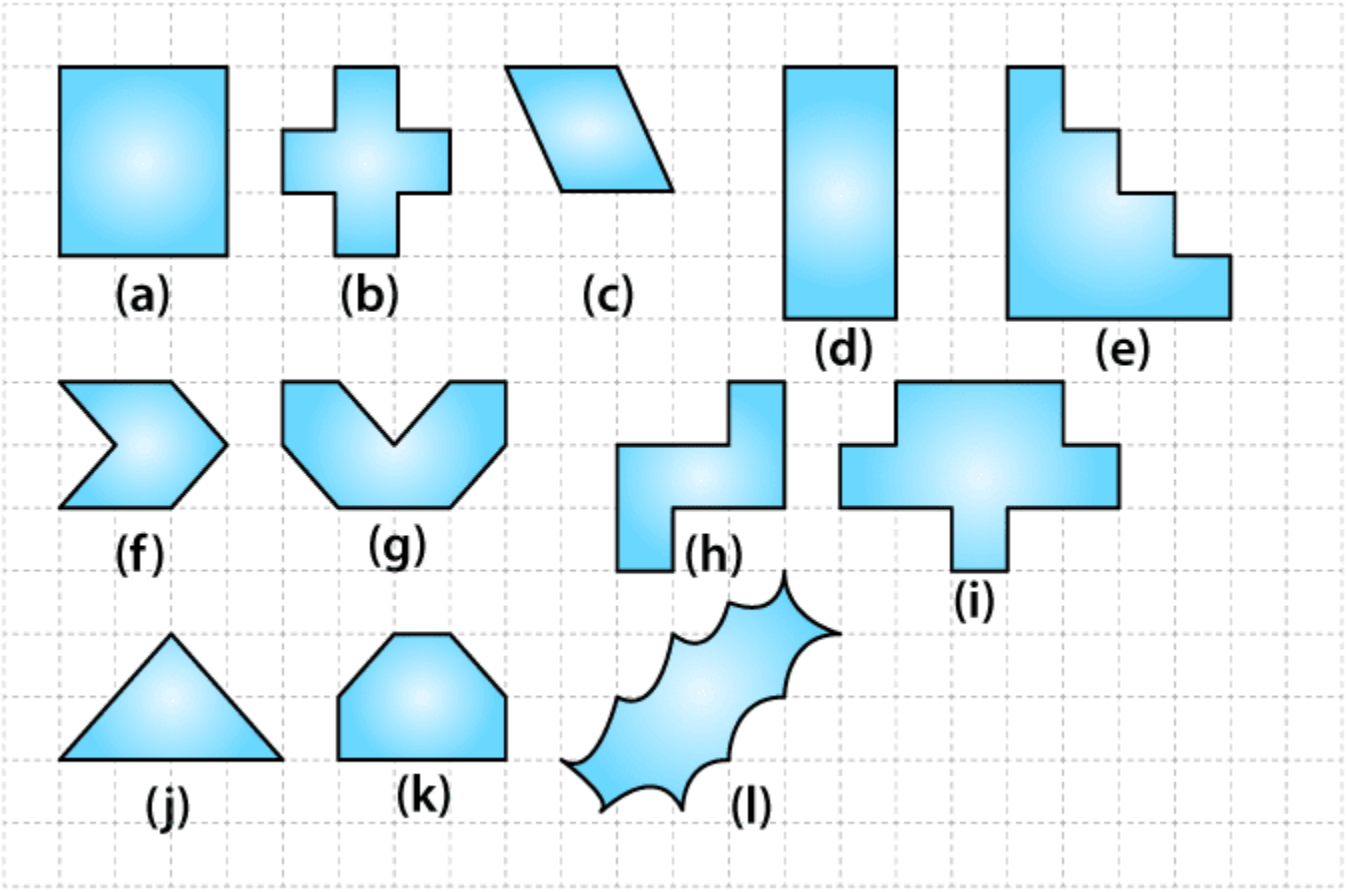
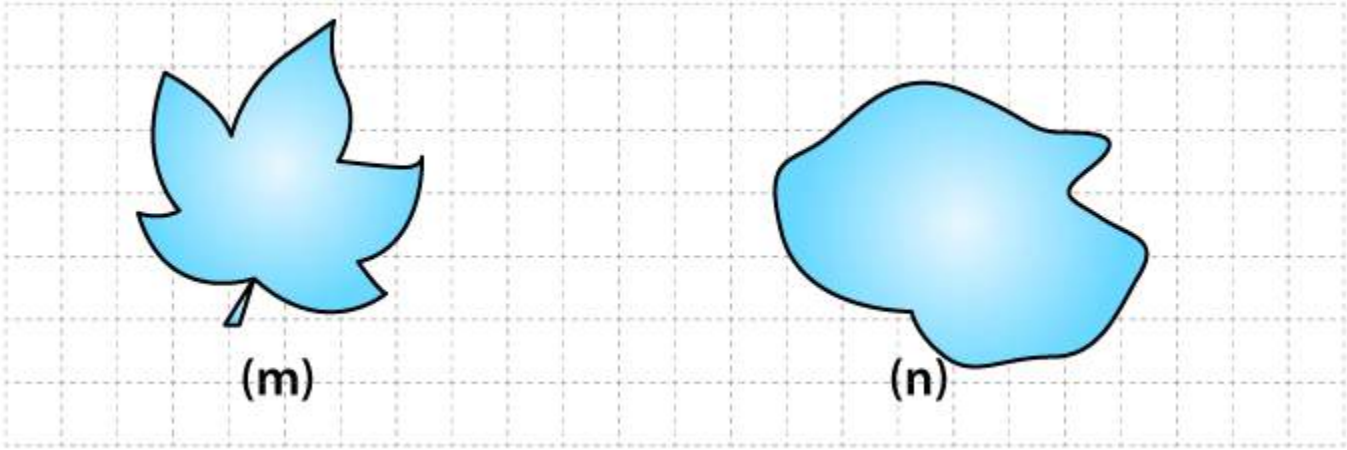
1. Find the areas of the following figures by counting squares:





(a) The figure contains only 9 fully filled squares. Hence, the area of this figure will be 9 square units.

(b) The figure contains only 5 fully filled squares. Hence, the area of this figure will be 5 square units.

(c) The figure contains 2 fully filled squares and 4 half filled squares. Hence, the area of this figure will be 4 square units.

(d) The figure contains only 8 fully filled squares. Hence, the area of this figure will be 8 square units.

(e) The figure contains only 10 fully filled squares. Hence, the area of this figure will be 10 square units.

(f) The figure contains only 2 fully filled squares and 4 half filled squares. Hence, the area of this figure will be 4 square units.

(g) The figure contains 4 fully filled squares and 4 half filled squares. Hence, the area of this figure will be 6 square units.

(h) The figure contains 5 fully filled squares. Hence, the area of this figure will be 5 square units.

(i) The figure contains 9 fully filled squares. Hence, the area of this figure will be 9 square units.

(j) The figure contains 2 fully filled squares and 4 half filled squares. Hence, the area of this figure will be 4 square units.

(k) The figure contains 4 fully filled squares and 2 half filled squares. Hence, the area of this figure will be 5 square units.

(l) From the given figure, we observe

Covered Area	Number	Area Estimate (square units)
Fully filled squares	2	2
Half filled squares	–	–
More than half filled squares	6	6
Less than half filled squares	6	0

Therefore total area = 2 + 6

= 8 square units.

(m) From the given figure, we observe

Covered Area	Number	Area Estimate (square units)
Fully filled squares	5	5

Half filled squares	–	–
More than half filled squares	9	9
Less than half filled squares	12	0

Therefore total area = 5 + 9

= 14 square units

(n) From the given figure, we observe

Covered Area	Number	Area estimate (square units)
Fully filled squares	8	8
Half filled squares	–	–
More than half filled squares	10	10
Less than half filled squares	9	0

Therefore total area = 8 + 10 = 18 square units