

Klasse 5/6

Einstieg/ Vorbereitung

Station 3
Flächeninhalt ebener Figuren

Nutze die Geometrieteile (z. B. aus Plaste von www.HEWA-MAMUD.de).

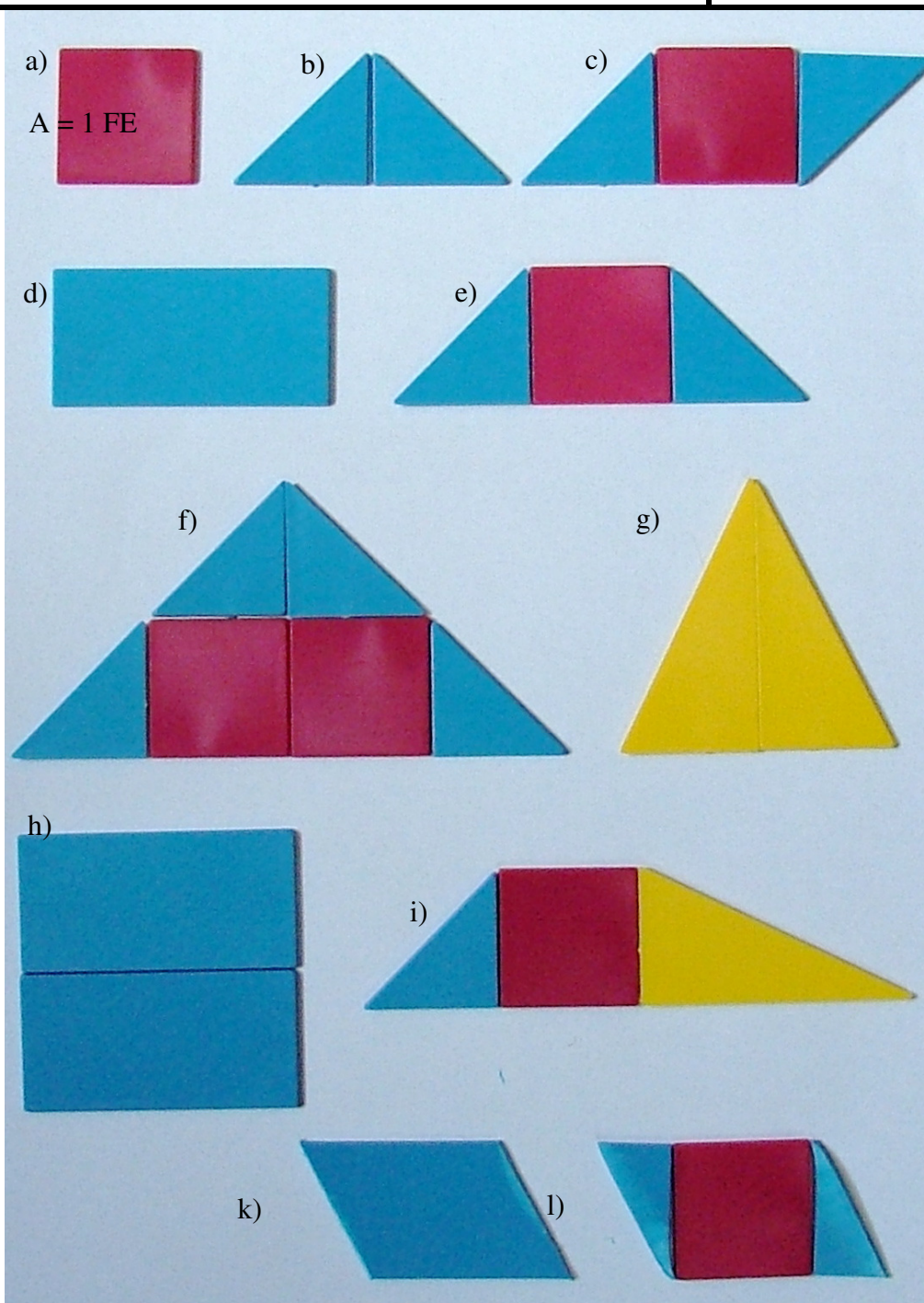
Wähle den Schwierigkeitsgrad I, II **oder** III.

Schreibe deine Lösung übersichtlich auf.

Klasse 5/6

Station 3
Flächeninhalt ebener Figuren

I



Welche geometrischen Figuren wurden gelegt?

Der Flächeninhalt des Quadrats beträgt 1 FE.

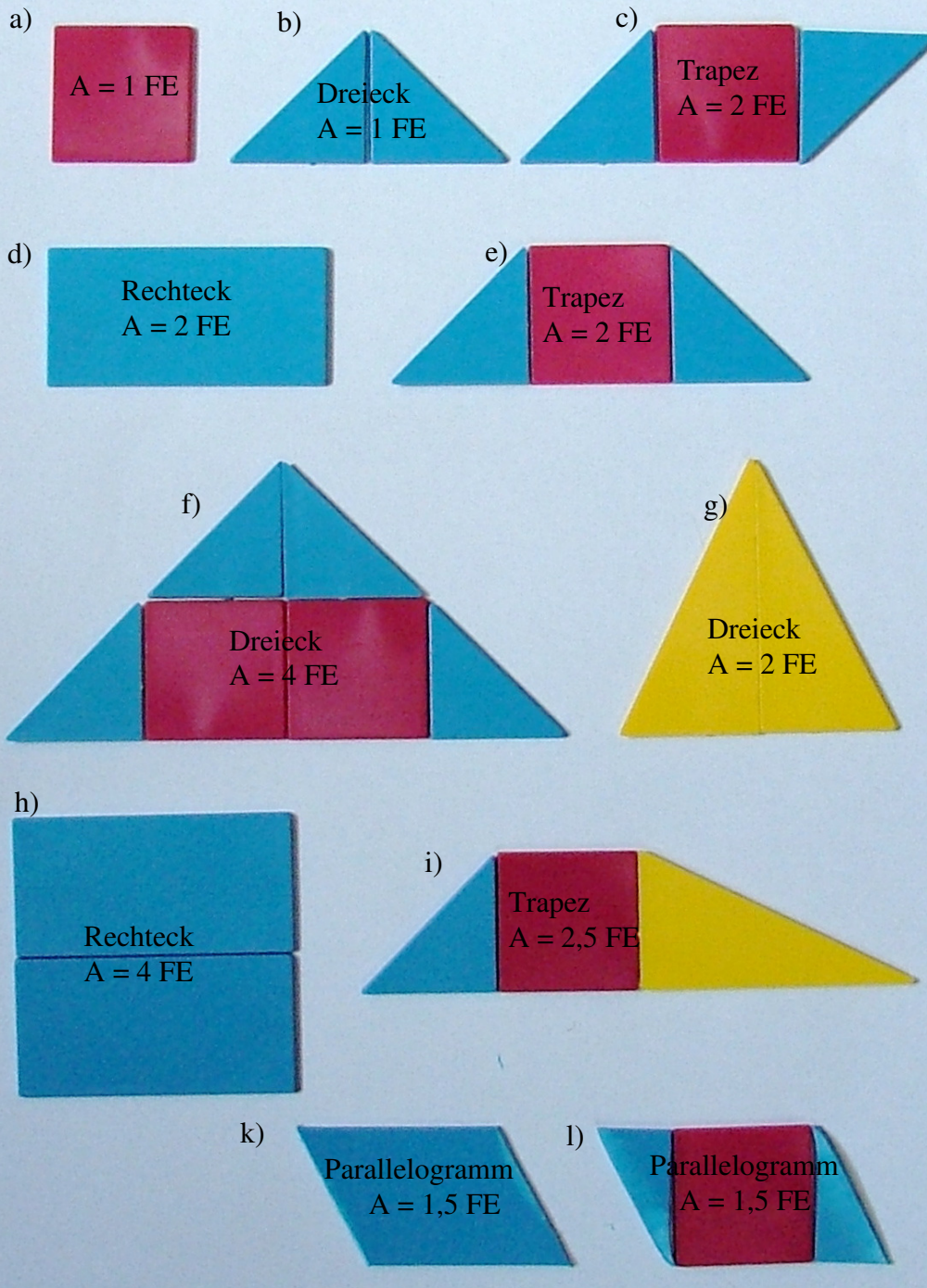
Bestimme den Flächeninhalt von mindestens 5 weiteren Figuren.

Klasse 5/6

Station 3
Flächeninhalt ebener Figuren

Lösung zu

I



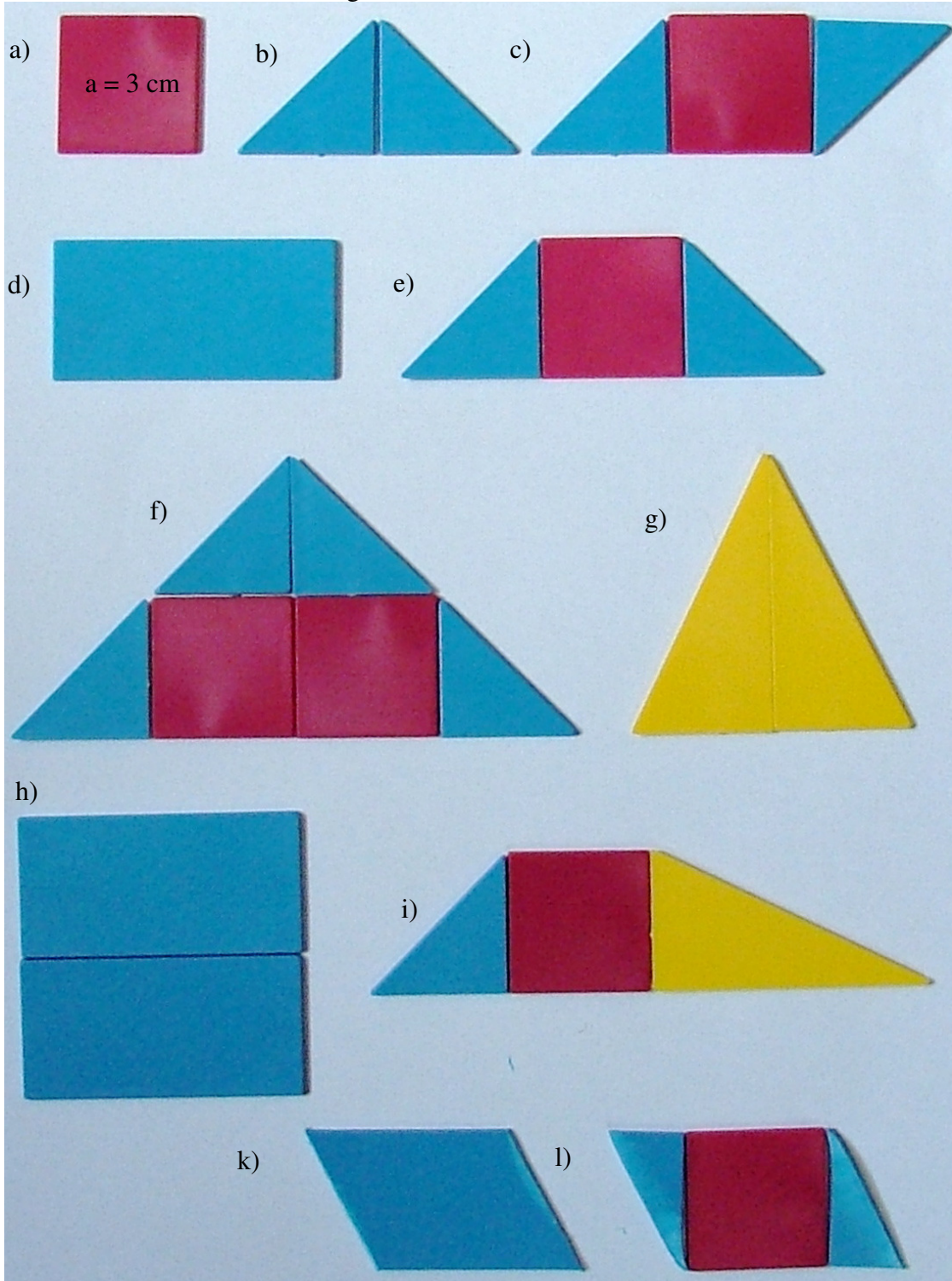
Klasse 5/6

Station 3
Flächeninhalt ebener Figuren

II

Welche geometrischen Figuren wurden gelegt?

Die Seitenlänge des Quadrats beträgt 3 cm.
Bestimme den Flächeninhalt der Figuren.

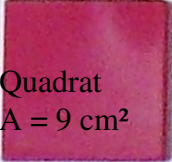


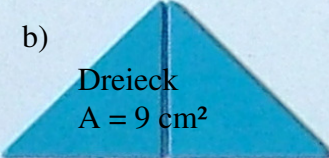
Klasse 5/6

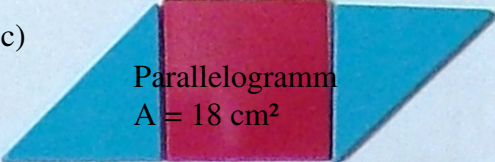
Station 3
Flächeninhalt ebener Figuren

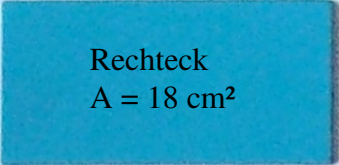
Lösung zu

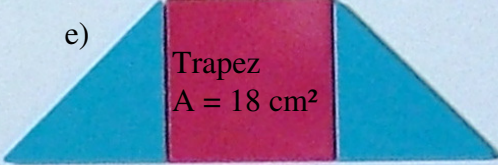
II

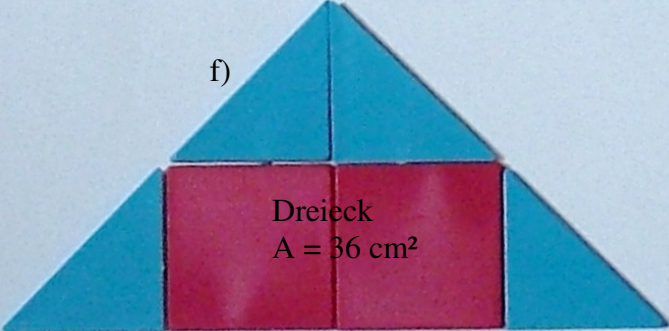
a)  Quadrat
 $A = 9 \text{ cm}^2$

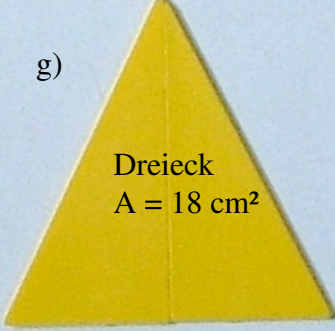
b)  Dreieck
 $A = 9 \text{ cm}^2$

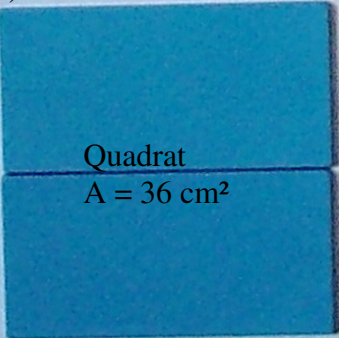
c)  Parallelogramm
 $A = 18 \text{ cm}^2$

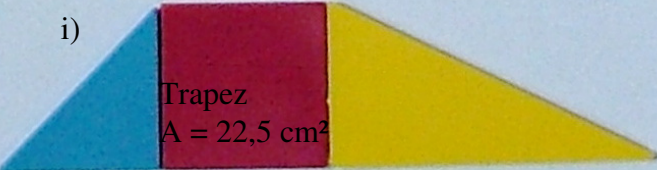
d)  Rechteck
 $A = 18 \text{ cm}^2$

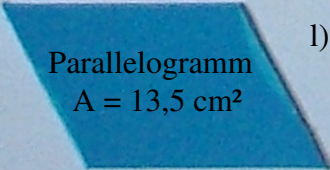
e)  Trapez
 $A = 18 \text{ cm}^2$

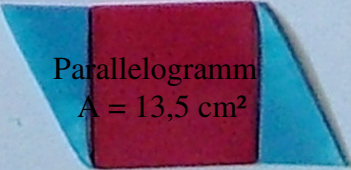
f)  Dreieck
 $A = 36 \text{ cm}^2$

g)  Dreieck
 $A = 18 \text{ cm}^2$

h)  Quadrat
 $A = 36 \text{ cm}^2$

i)  Trapez
 $A = 22,5 \text{ cm}^2$

k)  Parallelogramm
 $A = 13,5 \text{ cm}^2$

l)  Parallelogramm
 $A = 13,5 \text{ cm}^2$

Klasse 5/6 (höheres Anforderungsniveau) bzw. Klasse 7/8

**Station 3
Flächeninhalt ebener Figuren**

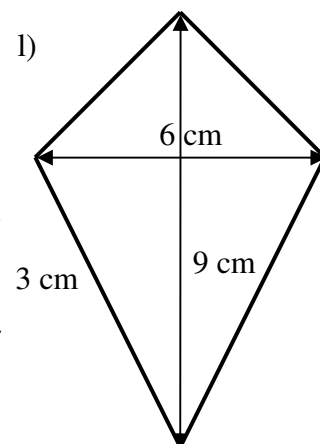
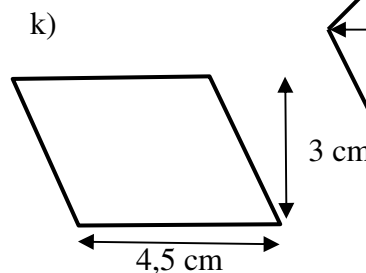
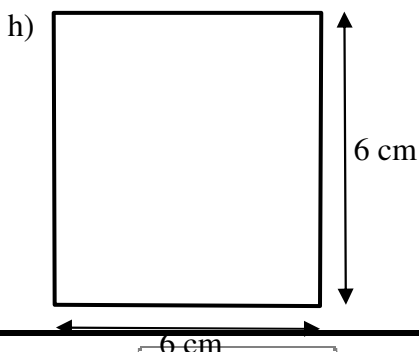
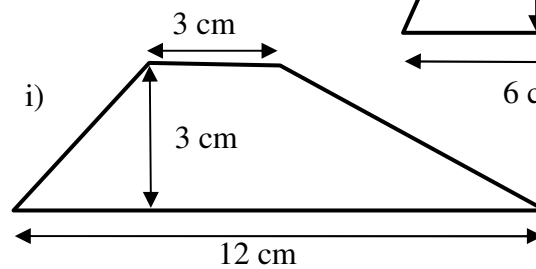
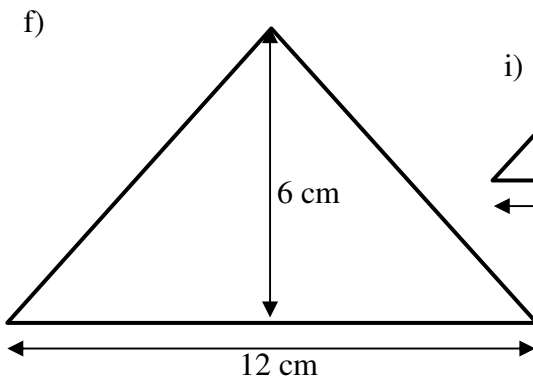
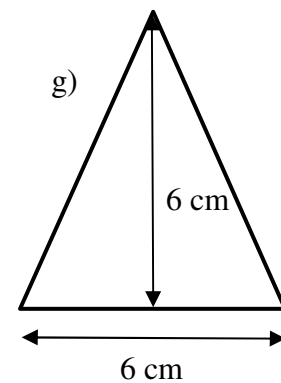
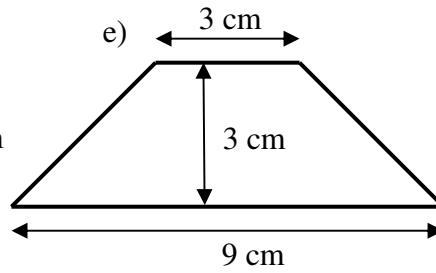
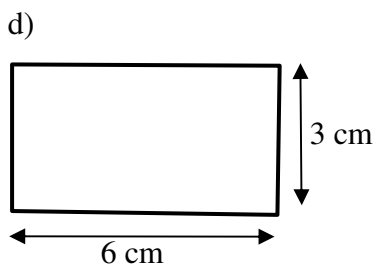
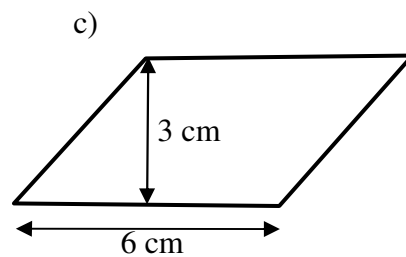
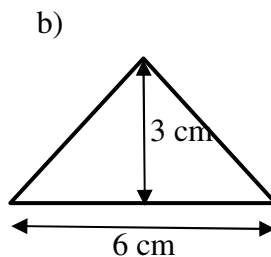
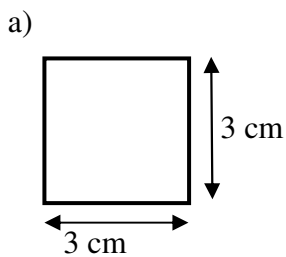
III

Erforsche, wie man den Flächeninhalt berechnet von

- Quadraten,
- Rechtecken,
- Dreiecken,
- Parallelogrammen,
- Trapezen.

Präsentiere dein Ergebnis.

Hilfe:
Zeichne mindestens 5 der gegebenen Figuren (auf kariertes Papier).
Gib den Namen der geometrischen Figuren an.
Bestimme den Flächeninhalt der Figuren.
Berechne den Flächeninhalt durch die gegebenen Größen.
Gib eine allgemeine Formel (als Gleichung oder in Worten) für die Berechnung des Flächeninhalts an.

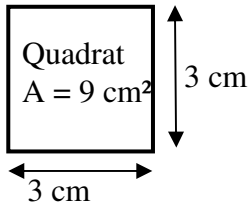


**Station 3
Flächeninhalt ebener Figuren**

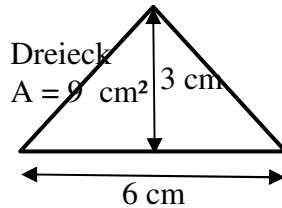
Lösung zu

III

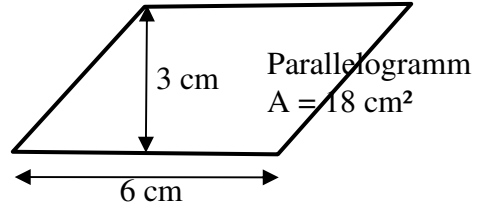
a)



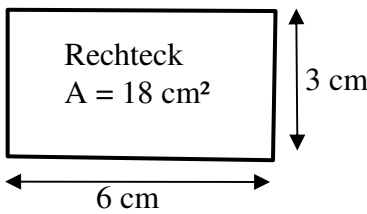
b)



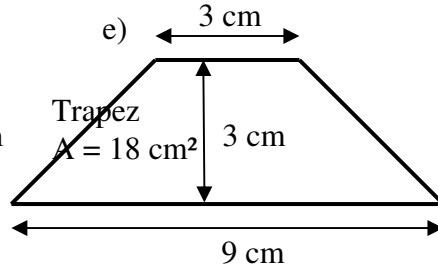
c)



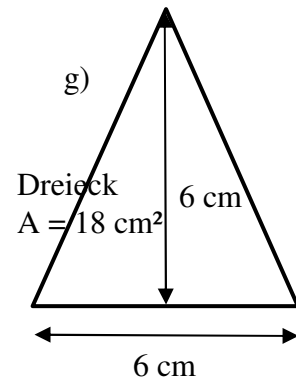
d)



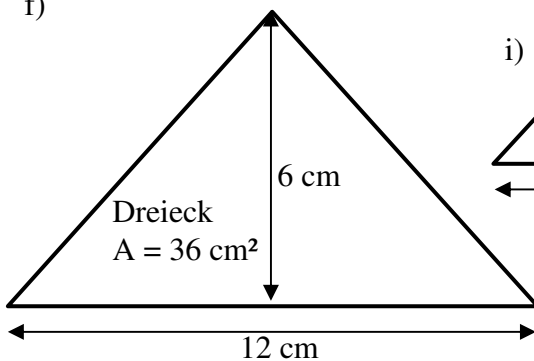
e)



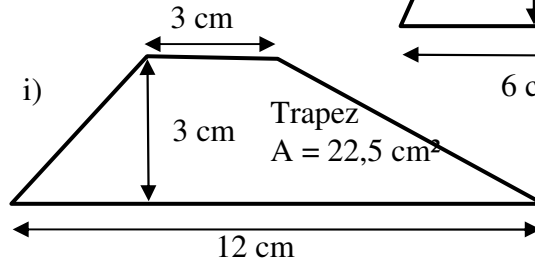
g)



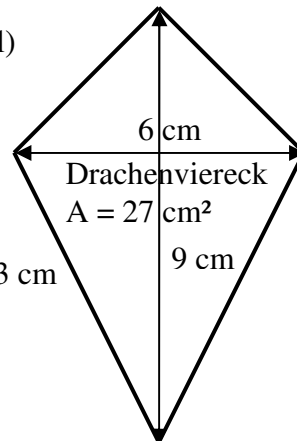
f)



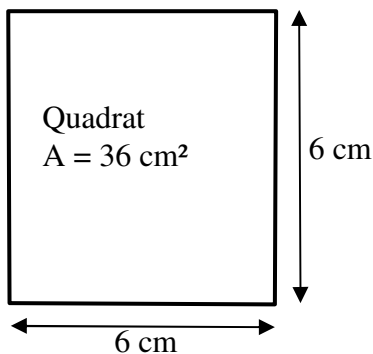
i)



l)



h)



k)

