



# Wiskunde

## Meetkunde: 2D figure

Graad 7

# Klassifiseer hoeke

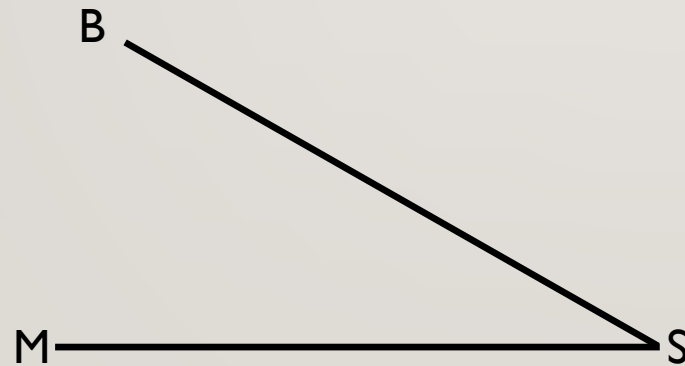
p.41

- Hoeke: Twee lyne / strale wat 'n punt deel, vorm 'n hoek.

Daar waar die strale sny word die hoekpunt genoem.

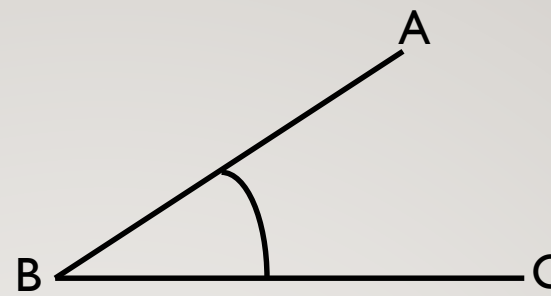
- Afkorting vir die woord hoek:  $\sphericalangle$
- Benoem hoeke: Die letter wat by die hoek staan moet altyd in die middel van die hoeknaam geskryf word.

Bv.



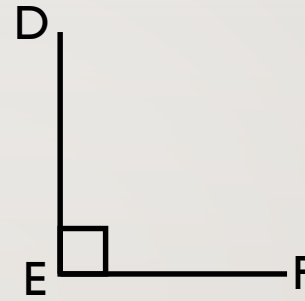
$\hat{B}SM$  of  $M\hat{S}B$

- Skerphoek: Groter as  $0^{\circ}$   
Kleiner as  $90^{\circ}$   
 $1^{\circ}$  tot  $89^{\circ}$



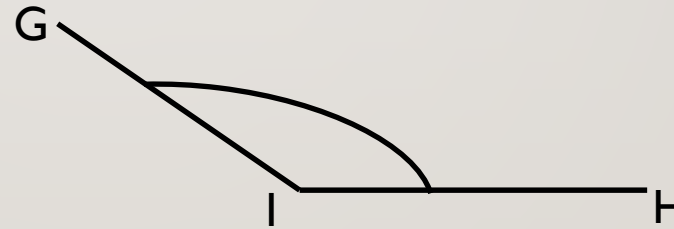
$\hat{A}BC$   
(Skerp $\angle ABC$ )

- Regte hoek:  $90^{\circ}$



$\hat{D}EF$   
(Regte $\angle DEF$ )

- Stomphoek: Groter as  $90^{\circ}$   
Kleiner as  $180^{\circ}$   
 $91^{\circ}$  tot  $179^{\circ}$



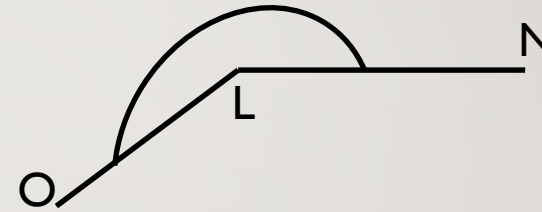
$\hat{G}IH$   
(Stomp $\angle GIH$ )

- Gestrekte hoek: Presies  $180^{\circ}$



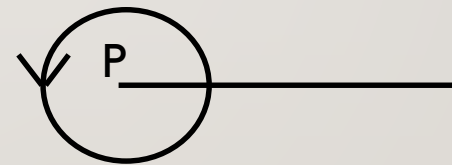
$\widehat{MKJ}$   
(Gestrekte  $\angle MKJ$ )

- Inspringende hoek: Groter as  $180^{\circ}$   
: Kleiner as  $360^{\circ}$   
:  $181^{\circ}$  tot  $359^{\circ}$   
: (Refleksiehoek)



$\widehat{NLO}$   
(Inspring.  $\angle NLO$ )

- Omwenteling:  $360^{\circ}$



Omwenteling P



# Oefening

## Werkkaart 17 B

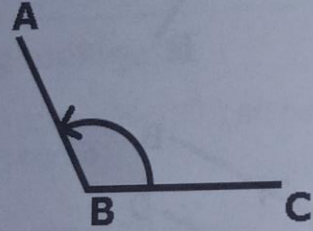
1. Vul die ontbrekende woord in:
  - 1.1  $20^\circ$  is 'n ..... hoek.
  - 1.2  $180^\circ$  is 'n ..... hoek.
  - 1.3  $210^\circ$  is 'n ..... hoek.

## Werkkaart 17 B

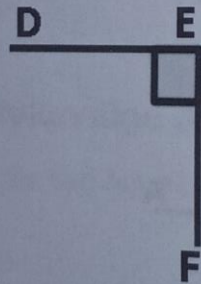
- 1.4  $90^\circ$  is 'n ..... hoek.
- 1.5  $85^\circ$  is 'n ..... hoek.
- 1.6  $348^\circ$  is 'n ..... hoek.
- 1.7  $126^\circ$  is 'n ..... hoek.
- 1.8  $360^\circ$  is 'n .....
- 1.9  $172^\circ$  is 'n ..... hoek.
- 1.10  $285^\circ$  is 'n ..... hoek.

2. Klassifiseer elk van die volgende hoëke:

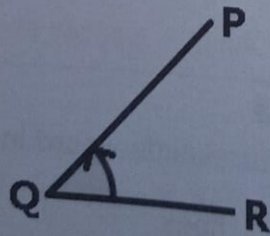
2.1



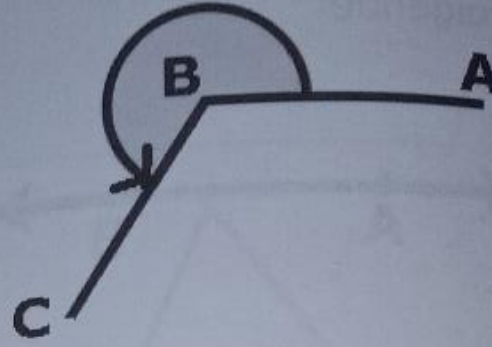
2.2



2.3



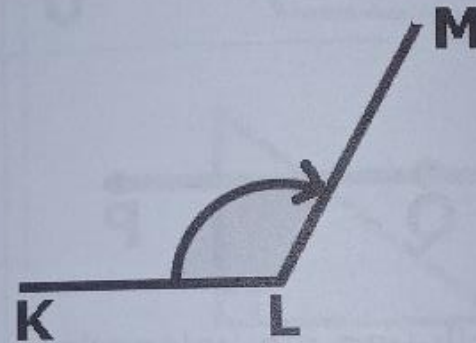
2.4



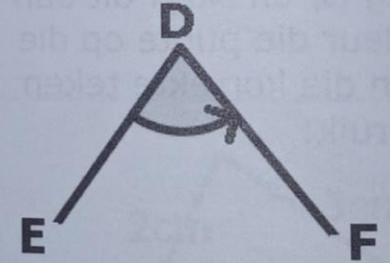
2.5



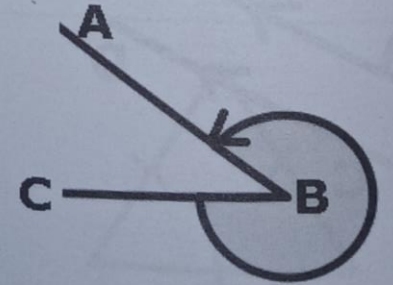
2.6



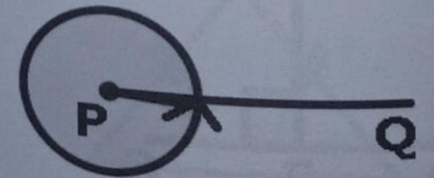
2.7



2.8



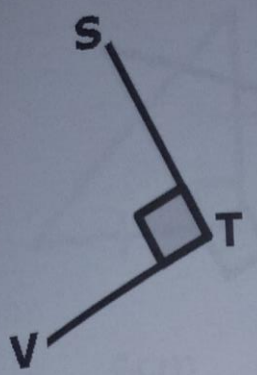
2.9



# Oefening

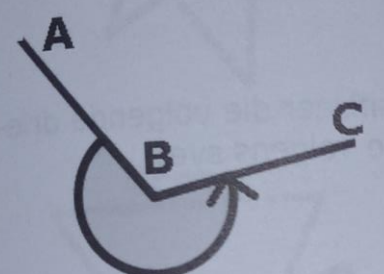
**Werkkaart 17 B**

2.10



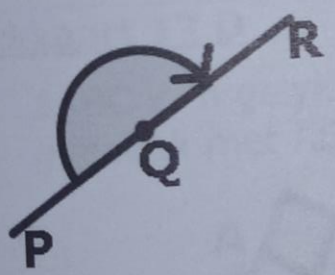
3. Voltooi die volgende vir elke skets:

3.1



$\angle \dots$  is 'n ..... hoek.

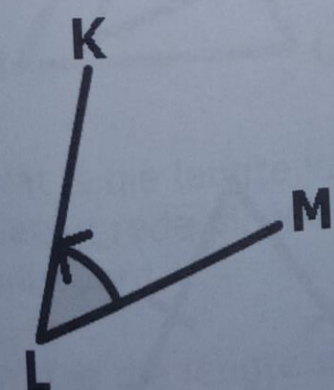
3.2



$\angle \dots$  is 'n ..... hoek.

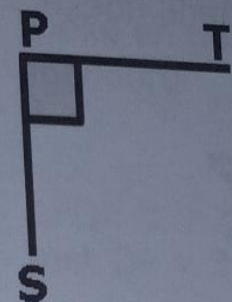
3

3.3



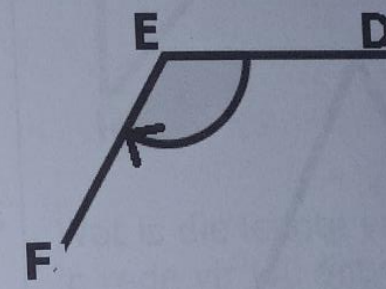
...KLM is 'n .....

3.4



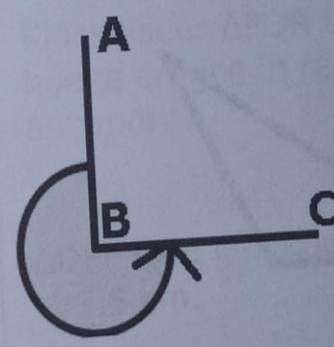
...SPT is ..... hoek

3.5



$\angle \dots$  is 'n .....

3.6



$\angle \dots$  is 'n ..... hoek.



# Antwoorde

## Werkkaart 17 B

- 1.1 skerphoek
- 1.2 gestrekte hoek
- 1.3 inspringende hoek
- 1.4 regte hoek
- 1.5 skerphoek
- 1.6 inspringende hoek
- 1.7 stomphoek
- 1.8 omwenteling
- 1.9 stomphoek
- 1.10 inspringende hoek
  
- 2.1 stomphoek
- 2.2 regte hoek
- 2.3 skerphoek
- 2.4 inspringende hoek
- 2.5 gestrekte hoek

## Werkkaart 17 B

- 2.6 stomphoek
- 2.7 skerphoek
- 2.8 inspringende hoek
- 2.9 omwenteling
- 2.10 regte hoek
  
- 3.1  $\angle ABC$  is 'n inspringende hoek.
- 3.2  $\angle PQR$  is 'n gestrekte hoek.
- 3.3  $\angle KLM$  is 'n skerphoek.
- 3.4  $\angle SPT$  is 'n regte hoek.
- 3.5  $\angle DEF$  is 'n gestrekte hoek.
- 3.6  $\angle ABC$  is 'n inspringende hoek.