

Sprong 11: les 139: transformaties

1: werkboek pg 19

Even herhalen

140 GELIJKVORMIGHEID



Eigenschap: Figuren die gelijkvormig zijn hebben **dezelfde vorm**, de **overeenkomstige hoeken zijn even groot** en er is **een gelijke verhouding tussen overeenkomstige afmetingen**.

Bekijk het filmpje in je bingeltaak.

Driehoekjes zijn **verplicht**.



1 Kleur de figuren die gelijkvormig zijn aan A.

Tip: Meet de zijden van de figuren.

A



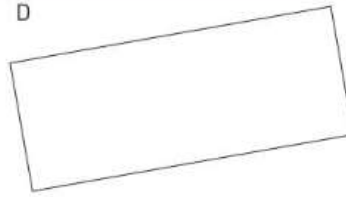
B



C



D



E



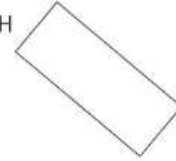
F



G



H

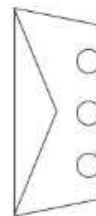
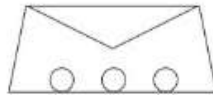
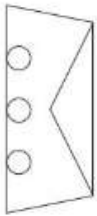


I

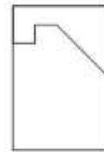
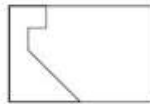
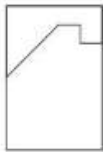


2

Welke tegels zijn gelijkvormig? Kleur ze.

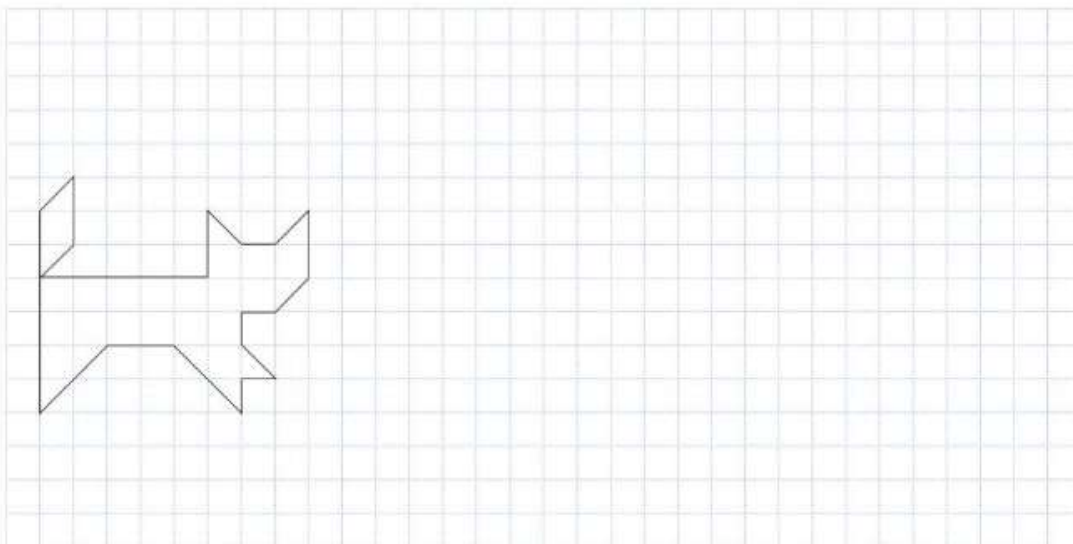


En hier?



3

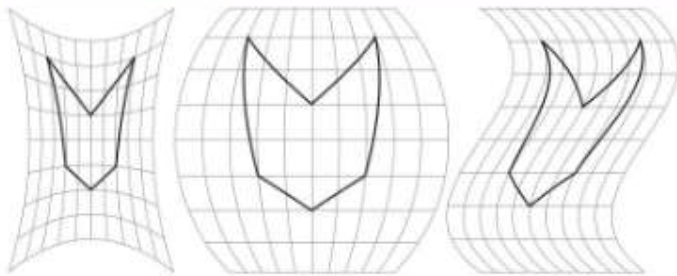
Teken het katje opnieuw, maar maak elk lijntje twee keer zo lang.



Is de figuur gelijkvormig?

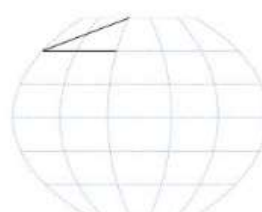
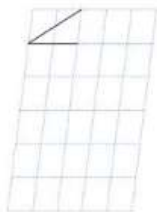
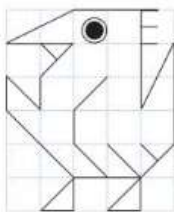
☐ ja ☐ nee

142 VERVORMINGEN

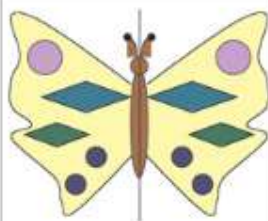


4

Neem de figuur over in een ander soort rooster.

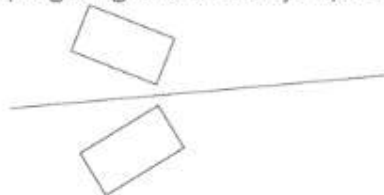


135 SPIEGELINGEN



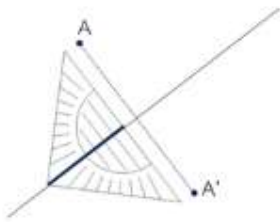
Vouw de figuur op de spiegelas en je merkt dat de helften elkaar bedekken.

Een spiegeling onderzoek je op 5 eigenschappen:



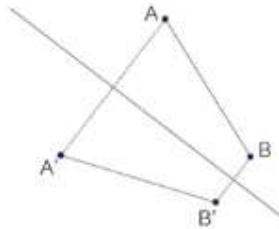
Vorm	De vorm blijft gelijk.
Oriëntatie	De oriëntatie verandert (links wordt rechts).
Loodrecht	Er wordt loodrecht op de spiegelas gespiegeld.
Grootte	De grootte blijft gelijk.
Afstand	De afstand tot de spiegelas blijft gelijk.

a Een punt spiegelen



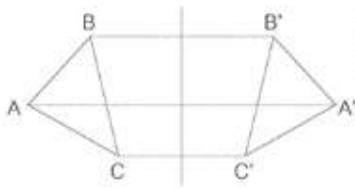
Leg je geodriehoek met de richtlijn op de spiegelas. (Loodrecht spiegelen!) Meet de afstand en plaats het gespiegelde punt op dezelfde afstand van de spiegelas.

b Een lijnstuk spiegelen



Spiegel de punten A en B. Benoem de spiegelpunten: A' en B'. Verbind A' en B'.

c Een figuur spiegelen

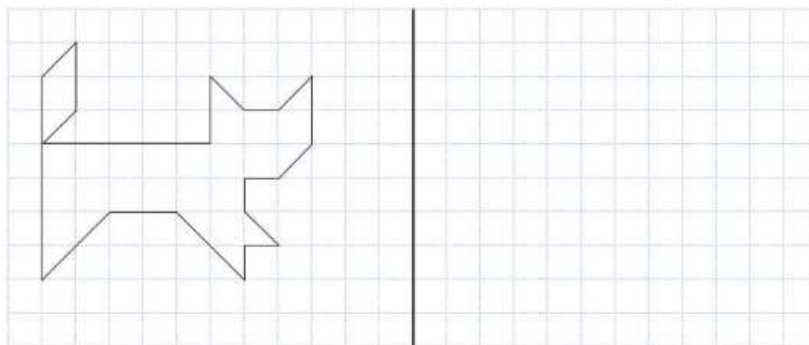


Spiegel elk hoekpunt. Verbind de punten tot een volledige figuur.

Bekijk het filmpje in je bingeltaak.

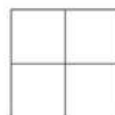
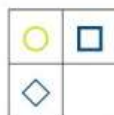
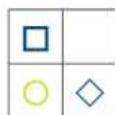
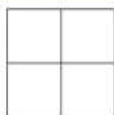
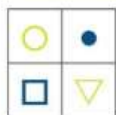
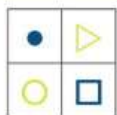
5

Teken het spiegelbeeld.



6

Hoe ziet de vierde figuur eruit? Teken ze ernaast.

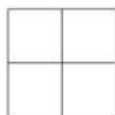
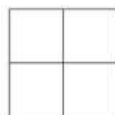


7

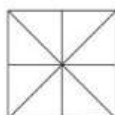
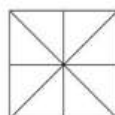
Vervolledig de reeks.



Welke draai wordt er gemaakt?



Vervolledig ook deze reeks.



Verbeter je oefeningen met de **correctiesleutel**. Deze vind je hieronder in dit document.

Vergeet **de taak op Bingel** niet te maken!

SUCCES

CORRECTIE

1

Kleur de figuren die gelijkvormig zijn aan A.



A



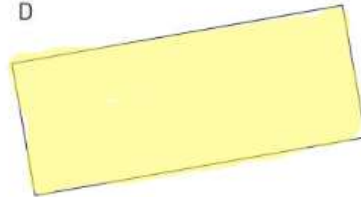
B



C



D



E



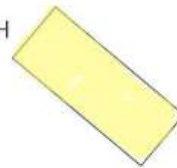
F



G



H

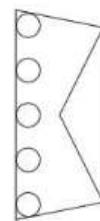
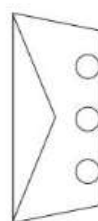
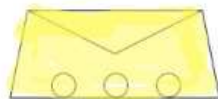
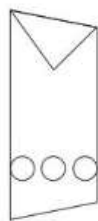
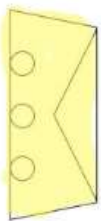


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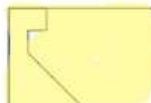
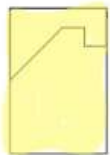


2

Welke tegels zijn gelijkvormig? Kleur ze.

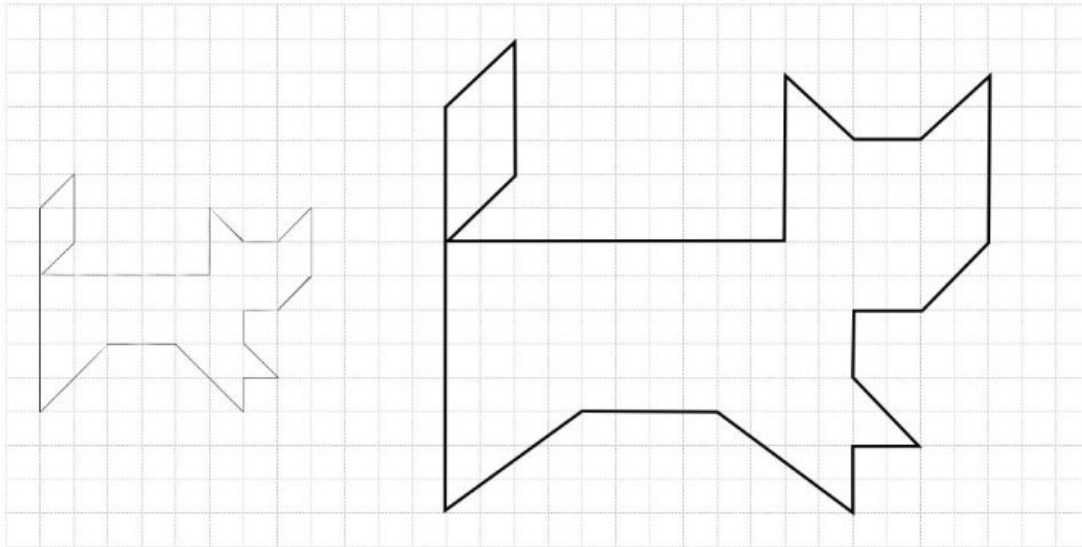


En hier?



3

Teken het katje opnieuw, maar maak elk lijntje twee keer zo lang.

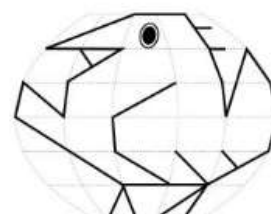
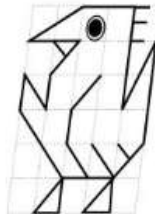
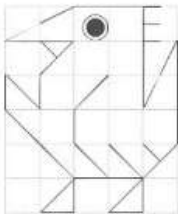


Is de figuur gelijkvormig?

☒ ja ☐ nee

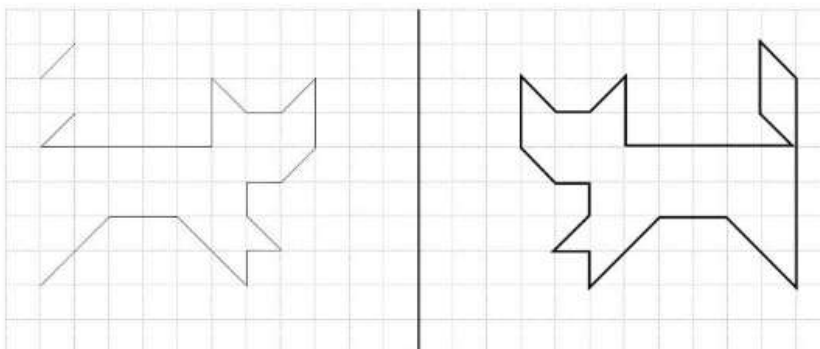
4

Neem de figuur over in een ander soort rooster.



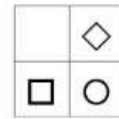
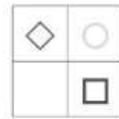
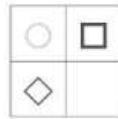
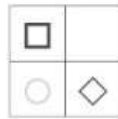
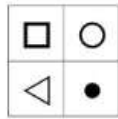
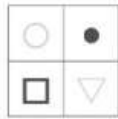
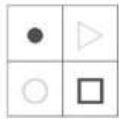
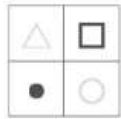
5

Teken het spiegelbeeld.



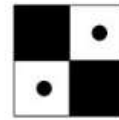
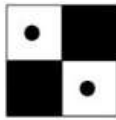
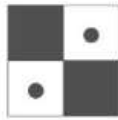
6

Hoe ziet de vierde figuur eruit? Teken ze eraast.



7

Vervolledig de reeks.

Welke draai wordt er gemaakt?**een kwartdraai naar rechts**.....

Vervolledig ook deze reeks.

