3.2. Sličnost trokuta i mnogokuta

Broj sati: 5

*Udžbenik: stranice 118. – 139.*

**Odgojno – obrazovni ishod**

B.8.2. Primjenjuje razmjer.

B.8.3. Rješava i primjenjuje linearnu jednadžbu.

C.8.3. Primjenjuje Talesov poučak.

**Međupredmetne teme**

uku A.3.2. Primjena strategija učenja i rješavanje problema

uku A.3.4. Učenik kritički promišlja i vrednuje ideje uz podršku učitelja.

uku B.3.3. Učenik regulira svoje učenje mijenjanjem plana ili pristupa učenju, samostalno ili uz poticaj učitelja.

uku B.3.4. Učenik samovrednuje proces učenja i svoje rezultate, procjenjuje ostvareni napredak te na temelju toga planira buduće učenje.

osr A.3.1. Razvija sliku o sebi.

osr A.3.3. Razvija osobne potencijale.

osr B.3.2. Razvija komunikacijske kompetencije i uvažavajuće odnose s drugima

osr B.3.4. Suradnički uči i radi u timu.

ikt A.3.2. Učenik se samostalno koristi raznim uređajima i programima.

**Tijek nastavnih sati**

* **Sličnost trokuta (1)**

**Aktivnost 1 – Motivacija**

Prikazivanjem slike (*Prilog 1*) učitelj potiče učenike da izvrše kategorizaciju prikazanih likova i samostalno zaključe što u matematici znači biti sličan.

Očekuje se da učenici uoče kako na slici postoje:

* parovi likova koji imaju isti oblik i jednaku veličinu pa su zbog toga **SUKLADNI**
* parovi likova koji imaju isti oblik ali su različite veličine -- > za takve likove kažemo da su **SLIČNI**

Učitelj cijeli proces kategorizacije nadgleda, pomaže i usmjerava ukoliko je potrebno. Prikuplja informacije o prethodnim znanjima učenika i miskoncepcijama o sukladnosti (vrednovanje za učenje).

Likovi su slični kada su istog oblika, ali ne nužno i jednake veličine.

Slične likove možemo dobiti povećavajući ili smanjujući zadani lik.

smanjenje

povećanje

**Aktivnost 2 – Slični likovi**

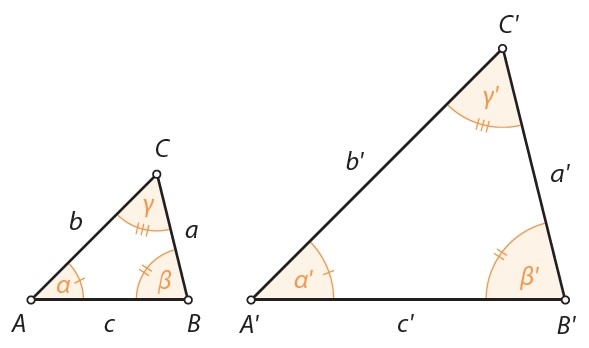
Uz razgovor s učenicima na *Primjeru 7.* ili listića (*Prilog 2*) učitelj komentira parove sličnih likova. Pita učenike je li za sličnost likova važan njihov položaj u ravnini?

Likovi mogu biti slični neovisno o svom položaju u ravnini.

**Aktivnost 3 – Istraživanje – Kako prikazati sličnost trokuta?**

Učitelj učenicima dijeli listić (*Prilog 3*) i daje upute za istraživanje ili učenici koriste udžbenik (str.119) i sve crtaju i zapisuju u bilježnicu. Učenici samostalno izvode zaključke (vrednovanje kao učenje), a učitelj pomaže i usmjerava ukoliko je potrebno. Pri zapisu poopćenja učitelj se može koristiti prezentacijom (e-sfera: Geometrija u ravnini -> Sličnost trokuta i mnogokuta -> e-Matematika -> Sličnost).

Dva su trokuta slična ako su im odgovarajući kutovi jednake veličine, a duljine odgovarajućih stranica proporcionalne. Omjer duljina odgovarajućih stranica nazivamo koeficijent sličnosti. Označavamo ga sa *k*.



***k*** je koeficijent sličnosti

Zapisujemo  gdje je ~ oznaka za sličnost i čitamo: „trokut ∆*ABC* je sličan trokutu ∆*A'B'C'* .“

Učitelj napominje kako pri označivanju sličnih trokuta moramo pripaziti da **poredak odgovarajućih kutova**

bude **jednak u oba trokuta**. Odgovarajuće stranice nalaze se nasuprot jednakim, tj. odgovarajućim kutovima.

**Aktivnost 4 – Odgovarajući kutovi i odgovarajuće stranice**

Uz razgovor s učenicima na *Primjeru 8*. učitelj pokazuje kako matematički zapisati sve uvijete koje ispunjavaju dva slična trokuta označena nestandardno.

Učenici rješavaju zadatak 40. te samostalno provjeravaju ispravnost rješenja. Učitelj pomaže, usmjerava i vodi kroz proces samovrednovanja (vrednovanje kao učenje).

Listići za vrednovanje kao učenje: Pr.1.

Listići za vrednovanje za učenje: Pr.1. i Listići za vrednovanje za učenje\_općenito: Pr.1. – Pr.5.

**Primjeri vrednovanja**

* Vrednovanje kao učenje:
* Aktivnosti 2, 3, 4 – samovrednovanje ispravnosti rješavanja zadataka
* Aktivnost 4 – listići za vrednovanje kao učenje
* Vrednovanje za učenje:
  + Aktivnost 1 – prikupljanje informacija o prethodnim znanjima
  + Aktivnost 4 – listići za vrednovanje za učenje

**Razrađeni problemski zadaci, zadaci za poticanje kritičkog razmišljanja, kreativnosti i/ili istraživački zadaci**

* Aktivnost 1 (*Prilog 1*)
* Aktivnost 2 (*Prilog 2*)
* Aktivnost 3 (*Prilog 3*)

**Aktivnosti koje obuhvaćaju prilagodbu za učenike s teškoćama**

* Lj. Peretin, D. Vujanović: Matematika 8 - radna bilježnica za pomoć u učenju matematike –
* T. Djaković, L. Havranek Bijuković, Lj. Peretin, K. Vučić: Matematika 8 – udžbenik za pomoć u učenju matematike –

**Aktivnosti za motiviranje i rad s darovitim učenicima**

* Z. Martinec: Matematika 8 plus – zbirka zadataka za dodatnu nastavu matematike –
* M.Muštra: Dodatna nastava matematike za 8.razred –

**Domaća zadaća**

* Zadaci za vježbu: 60.
* **Sličnost trokuta (2)**

**Aktivnost 1 – Ponavljanje**

Učitelj prikuplja informacije o prethodnim znanjima učenika i miskoncepcijama o sličnosti trokuta (vrednovanje za učenje).

**Aktivnost 2 – Sličnost trokuta**

Uz razgovor s učenicima na *Primjeru 9.* učitelj pokazuje kako provjeriti jesu li trokuti slični.

Učenici rješavaju zadatke 41. i 42.a te samostalno provjeravaju ispravnost rješenja. Učitelj pomaže, usmjerava i vodi kroz proces samovrednovanja (vrednovanje kao učenje).

**Aktivnost 3 – Primjena sličnosti trokuta na izračunavanje veličine kuta i duljine stranice**

Uz razgovor s učenicima na *Primjeru 10.* učitelj pokazuje kako primjenom sličnosti trokuta izračunati veličinu nepoznatog kuta trokuta i nepoznatu duljinu stranice.

Učenici rješavaju zadatak 43. te samostalno provjeravaju ispravnost rješenja. Učitelj pomaže, usmjerava i vodi kroz proces samovrednovanja (vrednovanje kao učenje).

**Aktivnost 4 – Primjena sličnosti trokuta na izračunavanje duljina stranica**

Uz razgovor s učenicima na Primjeru 11. učitelj pokazuje kako primjenom sličnosti trokuta izračunati nepoznate duljine stranica.

Učenici rješavaju zadatke 44. i 45. te samostalno provjeravaju ispravnost rješenja. Učitelj pomaže, usmjerava i vodi kroz proces samovrednovanja (vrednovanje kao učenje).

Listići za vrednovanje kao učenje: Pr.2.

Listići za vrednovanje za učenje: Pr.2. i Listići za vrednovanje za učenje\_općenito: Pr.1. – Pr.5.

**Primjeri vrednovanja**

* Vrednovanje kao učenje:
* Aktivnosti 1, 4 – samovrednovanje ispravnosti rješavanja zadataka
* Aktivnost 4 – listići za vrednovanje kao učenje
* Vrednovanje za učenje:
  + Aktivnost 1 – prikupljanje informacija o prethodnim znanjima
  + Aktivnost 4 – listići za vrednovanje za učenje

**Aktivnosti za motiviranje i rad s darovitim učenicima**

* Dodatni zadatci: 97. i 98.
* Z. Martinec: Matematika 8 plus – zbirka zadataka za dodatnu nastavu matematike –
* M.Muštra: Dodatna nastava matematike za 8.razred -

**Aktivnosti koje obuhvaćaju prilagodbu za učenike s teškoćama**

* Lj. Peretin, D. Vujanović: Matematika 7 - radna bilježnica za pomoć u učenju matematike –
* T. Djaković, L. Havranek Bijuković, Lj. Peretin, K. Vučić: Matematika 8 – udžbenik za pomoć u učenju matematike –

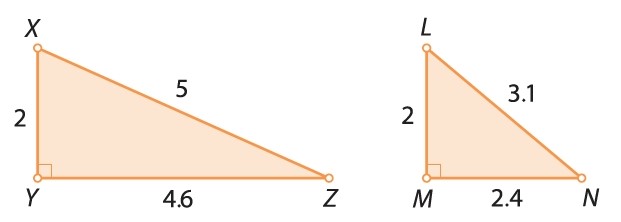
**Domaća zadaća**

* 42.b
* Zadatci za vježbu: 62.a, 66.a, 67.a, 72.
* **Sličnost mnogokuta**

**Aktivnost 1 – Ponavljanje u paru**

Učitelj prikuplja informacije o prethodnim znanjima učenika i miskoncepcijama učenika o sličnosti trokuta (vrednovanje za učenje).

Učenici u paru odgovaraju na pitanja iz rubrike Jeste li razumjeli?

* Marija nije sigurna da je doista nacrtala dva slična trokuta. Možete li joj pomoći odrediti jesu li slični? Objasnite kako ćete to učiniti.
* Je li Josip točno prepisao zadatak sa školske ploče u kojemu su zadani slični trokuti Δ*ABC* i Δ*XYZ* takvi da je , a traži se duljina dužine ? Objasnite.

Zatim slijedi razredna rasprava koju moderira učitelj (vrednovanje kao učenje).

**Aktivnost 2 – Istraživanje – Kako opisati sličnost mnogokuta?**

Učitelj učenicima dijeli listić (*Prilog 4*) i daje upute za istraživanje ili učenici koriste udžbenik (str.123) i sve crtaju i zapisuju u bilježnicu. Učenici samostalno izvode zaključke (vrednovanje kao učenje), a učitelj pomaže i usmjerava ukoliko je potrebno.

Dva su mnogokuta slična ako su im odgovarajući kutovi jednake veličine, a duljine odgovarajućih stranica proporcionalne. Koeficijent proporcionalnosti duljina odgovarajućih stranica nazivamo koeficijent sličnosti, a označavamo ga s *k*.

Omjer opsega dvaju sličnih mnogokuta jednak je koeficijentu sličnosti *k* tih dvaju mnogokuta.

**Aktivnost 3 – Sličnost mnogokuta (zadatci)**

Učenici rješavaju zadatke 46. – 49. te samostalno provjeravaju ispravnost rješenja. Učitelj pomaže, usmjerava i vodi kroz proces samovrednovanja (vrednovanje kao učenje).

**Aktivnost 4 – Uvećavanje i umanjivanje šesterokuta**

Uz razgovor s učenicima na *Primjeru 12.* učitelj pokazuje kako mnogokute uvećati ili umanjiti koristeći se kvadratnom mrežom. Isto se može uraditi korištenjem programa dinamične geometrije.

Učenici rješavaju zadatke 50. – 52. te samostalno provjeravaju ispravnost rješenja. Učitelj pomaže, usmjerava i vodi kroz proces samovrednovanja (vrednovanje kao učenje).

Listići za vrednovanje kao učenje: Pr.3.

Listići za vrednovanje za učenje: Pr.3. i Listići za vrednovanje za učenje\_općenito: Pr.1. – Pr.5.

**Primjeri vrednovanja**

* Vrednovanje kao učenje:
* Aktivnosti 1, 2, 3, 4 – samovrednovanje ispravnosti rješavanja zadataka
* Aktivnost 4 – listići za vrednovanje kao učenje
* Vrednovanje za učenje:
  + Aktivnost 1 – prikupljanje informacija o prethodnim znanjima
  + Aktivnost 4 – listići za vrednovanje za učenje

**Razrađeni problemski zadaci, zadaci za poticanje kritičkog razmišljanja, kreativnosti i/ili istraživački zadaci**

* Aktivnost 1 (*Prilog 4*)

**Aktivnosti za motiviranje i rad s darovitim učenicima**

* Dodatni zadatci: 99. i 100.
* Z. Martinec: Matematika 8 plus – zbirka zadataka za dodatnu nastavu matematike –
* M.Muštra: Dodatna nastava matematike za 8.razred -

**Aktivnosti koje obuhvaćaju prilagodbu za učenike s teškoćama**

* Lj. Peretin, D. Vujanović: Matematika 7 - radna bilježnica za pomoć u učenju matematike –
* T. Djaković, L. Havranek Bijuković, Lj. Peretin, K. Vučić: Matematika 8 – udžbenik za pomoć u učenju matematike –

**Domaća zadaća**

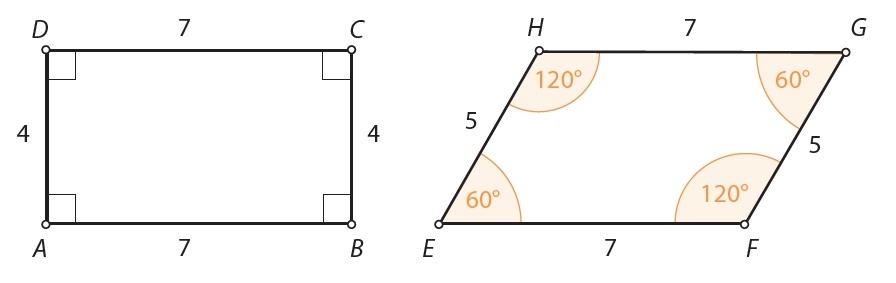
* Zadatci za vježbu: 80., 81., 82., 84.a
* **Primjena sličnosti**

**Aktivnost 1 – Ponavljanje u paru**

Učitelj prikuplja informacije o prethodnim znanjima učenika i miskoncepcijama učenika o sličnosti mnogokuta (vrednovanje za učenje).

Učenici u paru odgovaraju na pitanje iz rubrike Jeste li razumjeli?

* Jesu li dva četverokuta na slici slična? Objasnite svoj odgovor.



Zatim slijedi razredna rasprava koju moderira učitelj (vrednovanje kao učenje).

**Aktivnost 2 – Kako možemo odrediti visinu predmeta?**

Uz razgovor s učenicima na Primjeru 13. i/ili pomoću prezentacije (e-sfera: Geometrija u ravnini -> Sličnost trokuta i mnogokuta -> e-Matematika -> Sjena) učitelj pokazuje kako uz primjenu Talesovog poučka o proporcionalnim dužinama dokazati da su zadani trokuti slični nakon čega možemo pomoću koeficijenta sličnosti izračunati nepoznatu visinu predmeta.

Učenici rješavaju zadatke 53. i 54. te samostalno provjeravaju ispravnost rješenja. Učitelj pomaže, usmjerava i vodi kroz proces samovrednovanja (vrednovanje kao učenje).

**Aktivnost 3 – Određivanje udaljenosti dviju točaka koju ne možemo neposredno izmjeriti**

Uz razgovor s učenicima na *Primjeru 14.* učitelj pokazuje kako uz primjenu Talesovog poučka o proporcionalnim dužinama dokazati da su uočeni trokuti slični nakon čega možemo pomoću koeficijenta sličnosti izračunati nepoznatu udaljenost.

Učenici rješavaju zadatke 55. i 56. te samostalno provjeravaju ispravnost rješenja. Učitelj pomaže, usmjerava i vodi kroz proces samovrednovanja (vrednovanje kao učenje).

**Aktivnost 4 – Određivanje udaljenosti s pomoću umanjenog mjerila**

Uz razgovor s učenicima na *Primjeru 15.* učitelj pokazuje kako nepoznatu udaljenost odrediti crtanjem slike u pogodnom umanjenom mjerilu (1 : *k*). Na nacrtanom crtežu zatim mjerimo potrebne podatke, a tražene vrijednosti dobivamo množenjem na crtežu izmjerenih podataka s koeficijentom *k*.

Učenici rješavaju zadatke 57. – 59. te samostalno provjeravaju ispravnost rješenja. Učitelj pomaže, usmjerava i vodi kroz proces samovrednovanja (vrednovanje kao učenje).

**Aktivnost 5 – Povežite i primijenite**

Učenici rješavaju zadatak 91. te samostalno provjeravaju ispravnost rješenja. Učitelj pomaže, usmjerava i vodi kroz proces samovrednovanja (vrednovanje kao učenje).

**Aktivnost 6 – Iz svijeta rada**

Učenici rješavaju zadatak 95. te samostalno provjeravaju ispravnost rješenja. Učitelj pomaže, usmjerava i vodi kroz proces samovrednovanja (vrednovanje kao učenje).

Listići za vrednovanje za učenje\_općenito: Pr.1. – Pr.5.

**Primjeri vrednovanja**

* Vrednovanje kao učenje:
* Aktivnosti 1, 2, 3, 4, 5, 6 – samovrednovanje ispravnosti rješavanja zadataka
* Vrednovanje za učenje:
  + Aktivnost 1 – prikupljanje informacija o prethodnim znanjima
  + Aktivnost 6 – listići za vrednovanje za učenje

**Razrađeni problemski zadaci, zadaci za poticanje kritičkog razmišljanja, kreativnosti i/ili istraživački zadaci**

* Aktivnosti 1 – 6 , domaća zadaća – svakodnevni život

**Aktivnosti za motiviranje i rad s darovitim učenicima**

* Dodatni zadatci: 101.
* Z. Martinec: Matematika 8 plus – zbirka zadataka za dodatnu nastavu matematike –
* M.Muštra: Dodatna nastava matematike za 8.razred -

**Aktivnosti koje obuhvaćaju prilagodbu za učenike s teškoćama**

* Lj. Peretin, D. Vujanović: Matematika 7 - radna bilježnica za pomoć u učenju matematike –
* T. Djaković, L. Havranek Bijuković, Lj. Peretin, K. Vučić: Matematika 8 – udžbenik za pomoć u učenju matematike –

**Domaća zadaća**

* Povežite i primijenite: 86., 88., 90., 92.
* Iz svijeta rada: 94.
* **Uvježbavanje**

**Aktivnost 1 – Ponavljanje**

Učitelj prikuplja informacije o prethodnim znanjima učenika i miskoncepcijama o sličnosti mnogokuta (vrednovanje za učenje).

**Aktivnost 2 – Uvježbavanje**

Učenici rješavaju Nastavni listić i/ili zadatke 64.b, 69.a, 71., 75.b, 77.a, 78.a, 84.b, 89. te samostalno provjeravaju ispravnost rješenja. Učitelj pomaže, usmjerava i vodi kroz proces samovrednovanja (vrednovanje kao učenje).

Učenici rješavaju zadatke na e-sferi: Geometrija u ravnini -> Sličnost trokuta i mnogokuta -> Matematika + -> provjera znanja Sličnost trokuta i mnogokuta (kratki kviz) te samostalno provjeravaju ispravnost rješenja. Učitelj pomaže, usmjerava i vodi kroz proces samovrednovanja (vrednovanje kao učenje).

Listići za vrednovanje za učenje\_općenito: Pr.1. – Pr.5.

**Primjeri vrednovanja**

* Vrednovanje kao učenje:
* Aktivnost 2 – samovrednovanje ispravnosti rješavanja zadataka
* e-sfera: Geometrija u ravnini -> Sličnost trokuta i mnogokuta -> Matematika + -> provjera znanja Sličnost trokuta i mnogokuta (kratki kviz)
* Aktivnost 2 – listići za vrednovanje kao učenje
* Vrednovanje za učenje:
  + Aktivnost 1 – prikupljanje informacija o prethodnim znanjima
  + Aktivnost 2 – listići za vrednovanje za učenje

**Aktivnosti koje obuhvaćaju prilagodbe za učenike s teškoćama**

* Nastavni listić – dopunski zadatci
* Lj. Peretin, D. Vujanović: Matematika 8 - radna bilježnica za pomoć u učenju matematike –
* T. Djaković, L. Havranek Bijuković, Lj. Peretin, K. Vučić: Matematika 8 – udžbenik za pomoć u učenju matematike –

**Aktivnosti za motiviranje i rad s darovitim učenicima**

* Z. Martinec: Matematika 8 plus – zbirka zadataka za dodatnu nastavu matematike –
* M.Muštra: Dodatna nastava matematike za 8.razred -

**Domaća zadaća**

* Zadatci za vježbu: 63., 70., 77.c, 83.
* Povežite i primijenite: 87.
* Iz svijeta rada: 96.
* e-sfera: Geometrija u ravnini -> Sličnost trokuta i mnogokuta -> Matematika + -> provjera znanja Sličnost trokuta i mnogokuta (dugi kviz)

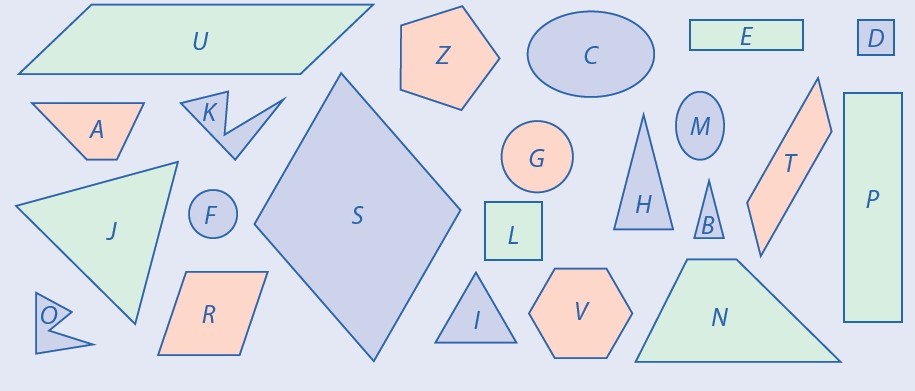
**Prilozi pripremi**

**Prilog 1: Istraživanje – Kategorizacija likova sa slike**



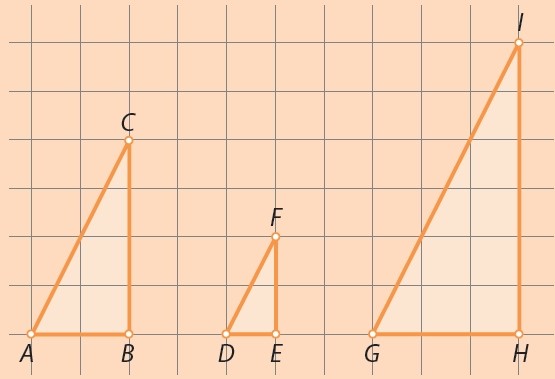
**Prilog 2: Istraživanje – Slični likovi**

Pronađite parove sličnih likova na slici. Je li za sličnost likova važan njihov položaj u ravnini?

****

**Prilog 3: Istraživanje – Kako prikazati sličnost trokuta?**

Na papir s kvadratnom mrežom nacrtani su trokuti Δ*ABC*, Δ*DEF* i Δ*GHI*.

****

* Izmjerite tražene podatke i zapišite ih.

Što zamjećujete?

* Odredite omjere duljina **odgovarajućih** stranica. Usporedite vrijednosti tako dobivenih omjera.

Što zamjećujete?

**Prilog 4: Istraživanje – Kako opisati sličnost mnogokuta?**

![Slika na kojoj se prikazuje tekst, paravan

Opis je automatski generiran](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4SjIRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIxOjA3OjE0IDExOjMyOjA2AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMyMQAAkpIAAgAAAAMyMQAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAMjAyMTowNzoxNCAxMTozMToyOQAyMDIxOjA3OjE0IDExOjMxOjI5AAAAAAYBAwADAAAAAQAGAAABGgAFAAAAAQAAEZQBGwAFAAAAAQAAEZwBKAADAAAAAQACAAACAQAEAAAAAQAAEaQCAgAEAAAAAQAAFxsAAAAAAAAAYAAAAAEAAABgAAAAAf/Y/9sAQwAIBgYHBgUIBwcHCQkICgwUDQwLCwwZEhMPFB0aHx4dGhwcICQuJyAiLCMcHCg3KSwwMTQ0NB8nOT04MjwuMzQy/9sAQwEJCQkMCwwYDQ0YMiEcITIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIyMjIy/8AAEQgAXQEAAwEhAAIRAQMRAf/EAB8AAAEFAQEBAQEBAAAAAAAAAAABAgMEBQYHCAkKC//EALUQAAIBAwMCBAMFBQQEAAABfQECAwAEEQUSITFBBhNRYQcicRQygZGhCCNCscEVUtHwJDNicoIJChYXGBkaJSYnKCkqNDU2Nzg5OkNERUZHSElKU1RVVldYWVpjZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A9iqOBi8EbNyWUE/lXnHpDgT5jDsAD/OklYqgI/vKPzIoEPqOBi8ZLHJ3sPyYikMCx89F7FWJ/Aj/ABp0hKxOw6hSRTEOpqkktnsaAAk+Yo7EH+lOoAjhYvBGzcllBP5U4E+ay9goP86AByQBj1Ap1AxqEmNSepFIGPnMvYKD/OgQkzFEBU871H5sBUlIZHCxdCT13sPyYilJPmqvYqT/ACpiCVisLsOoUkU+kMjjYs8wJ4V8D/vkH+tEjFXiA6M+D+RP9KYiSmREtEjHqVBNIBQTvYdgBQxIK47nFMB1MiYtCjHqVBNIAeGKQ5eJGPTLKDUFvbW5tYiYIvuD+AelO+gWHC1t/Nb9xF90fwD3pJra32D9xF99f4B/eFO7FZEn2W3/AOeEX/fAqG3trcxNmCP/AFj/AMA/vGldjshWtrf7TGPIi+438A9Vp01rb+TJ+4i+6f4BTuxWQ/7Lb/8APCL/AL4FMS1t8t+4i+9/cFK7HZAbW381f3EXQ/wD2ptzbqtrM1vawtMEYxqVGC2OB+dO4rIp6NY2i6fE4ilZ2Rd5uFbJOPRuB17DFXha2/nN+4i+6P4B70Nu4JKwPa2+F/cRfeH8Ap/2W3/54Rf98Cldjshkdrb+Un7iLoP4BSC2t/tD/uIvur/APU07sVkJcW1uIxiCL76fwD+8Kl+y2/8Azwi/74FK7HZEVvbW5jOYIvvv/AP7xpTbW/np+4i+638A9RTuxWVgntrf7PJ+4i+4f4B6VJ9lt/8AnhF/3wKV2OyIora38yf9xHw4/gH91aJba38yH9xF9/8AuD+6ad2KyJfstv8A88Iv++BUcNtb+RH+4i+6P4B6UrsdkKLW38xv3EXQfwD3oe1t8p+4i+9/cHpTuxWQ/wCy2/8Azwi/74FMt7eFYomWGMMFHIUZ6UrsdlcmYSE/Kyge65/rUNsJvssPzp9wfwH0+tHQBwE3mt86fdH8B9/emzCbyx86ffX+A/3h70+oilqN/d2txHb2628krQyTnzCUUKm0HnnGSw/Wp9OlkubGOdGCrKWcBozkZJPPNGlg1uTMJvtUfzp9xv4D6r71W1X7eNOk+yFGlJAOEGQpI3EZOMgZxmhWuDvYtRiZIV3yrwvJdOfxwcVQ/tqxRpANRtpHVuY4gZH/AO+VJP6U0r7ITdt2EOoXl3iS00y9lQAjdJb+R+krKf0qSKDxLcFvMh060j7fvXkc/oAv1y2PQ1oqfczdXsP0uWa40y3lO2MsvKEbihHG0nIyR0zgdKsATee3zp90fwH396ydrs1V7IVxNhfnT7w/gP8AjTsTf30/74P+NIY2ITeUnzp0H8B/xpoE32h/nT7i/wAB9T70xCXAl8sfOn30/gP94e9S4m/vp/3wf8aQ9SK3E3ln50++/wDAf7x96cRN56fOn3W/gPqPenoLoJOJvs8nzp9w/wAB9PrUmJv76f8AfB/xpDIohN5s/wA6f6wfwH+6vvRKJvMg+dPvn+A/3T70xakuJv76f98H/GmQibyI/nT7o/gPp9aQxQJvMb506D+A+/vQ4mynzp97+4fQ+9MQ7E399P8Avg/40y3EvkxZdCNo4Cn0+tIZKWCnBB/AE1FbSD7LDw33B/CfSiwXHCQea3DfdH8J96bNIPLHDffX+E/3hTsK5Dc2VndyiS4gaRghTkNgqeoI6EfWqdrqd1Oiix0m4ukZi3nrLEsQ3HdyS2cjOCADg5qoxckTKaiW5bHX55EaNtNs8Ags2+4POO3yenrRe6HcvYStcazdkrGSVgVIlPH0LD/vqr5EkZ+0bZX/ALC0lkCz2jXQHP8ApZef/wBDJrX0sxQ77aJFjjByiqm0D1AFRFu+pc0uXQ0JH8uNn2ltoJwOppIpVlTenK5IB9a2vrYxtpc5zS820uo2b7j5F7JtIBPyviUfl5mPwq6JB57cN90fwn1NYSWrOiL91CvIMLw33h/Cad5g9G/75NTYq42OQeUnDdB/CaQSD7Q/DfcX+E+pp2FcbcSDyl4b/WJ/Cf7wqXzB6N/3yaVh3IreQeWeG++/8J/vGnGQeenDfdb+E+op2FfQJ5B9nk4b7h/hPpT/ADB6N/3yaVh3IopB5s/Df6wfwn+6tEsg8yDhvvn+E/3TTsK5L5g9G/75NMhkHkR8N90fwn0pWHcUSDzG4boP4T70PIMpw33v7p9DTsK47zB6N/3yaZA4MEYw33R/CfSlYd9Saorb/j1h/wBxf5UAOH+tb/dH9aSb/Vj/AH1/9CFHUClqzSyxRafbMy3F6/lBlODGnV3/AAXOPcr61ufuNOs44402wxKsaIvYDgD8BWsfdjcxn700kTg5APrVTUmxZOmcFxj8Opq5P3SIL3iCmLnLEHDBsgjtXOdJdiuVlHludkhGPr9KnRFjjVFGFUYFbxalqc0k46GA/mQ+LLuMj9zcWsUye7qWV/08urQYfaXXI3BFJGeQMt/gazmveNqfwoWTov8AvCn1BYyL/VJ9BSD/AI+H/wBxf5mgBLj/AFS/9dE/9CFS0AU2uktLbeyu7NMyIiDLMxY8D/HoACakjlaWdd0MkRCHh8eo9CadhXJJ/wDj3l/3D/KpKQyGH/W3H/XQf+grSy/6yD/fP/oLUAS1HD/qI/8AdH8qAHD/AFrfQf1pH6p/vf0NAD6jg/494/8AdH8qAHFFY5IzUVtGn2WH5R9wfyouFhwjTzW+UfdH9axbHUm1O/mVY0S2ijhYYbcSzu3B44ICjI/2qpEs0tBhW8vbnWCqGNs29oQc/u1PzN/wJh+IVTW3NAs23LMpUkgj6YrblvGzMOa0rjiY4IhkhUUYFZl23npI7jgKQo9BUTe0UXTje8mL5af3RTEjTL/KPvVldm1kI0UZkUFARg8H8KmUun3JHX2zkfkaLsLIxry4ddU0WeZjJ5/mWxJx8pZPMzx7xY/GkOnXD+JftQOyFUQHbIQGUB/lK9zubOT0AGOpquYjlXQ1XjTC/KPvCn+Wn90VN2XZEDbIrJpdm7ZGWwB1wKxNFiuJZ4913PKkcETTO64EkuGDBSQPlzg8ccADvVJ6MlrVGjq6TiG2FsjbWuEEzR7dypzyN3H3to+hNXVhhhQ8BVyWJJ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papir s kvadratnom mrežom nacrtani su četverokuti *ABCD* i *A'B'C'D'*.

* Izmjerite veličine unutarnjih kutova i duljine stranica dvaju četverokuta. Što zamjećujete?
* Odredite omjere duljina odgovarajućih stranica. Usporedite vrijednosti tako dobivenih omjera. Što zamjećujete?
* Izračunajte koeficijent sličnosti *k* dvaju četverokuta, tj. vrijednosti omjera duljina njihovih odgovarajućih stranica.
* Izračunajte opsege četverokute *ABCD* i *A’B’C’D’*, a zatim izračunajte omjer njihovih opsega.
* Usporedite omjer opsega s omjerima duljina odgovarajućih stranica. Što zamjećujete?

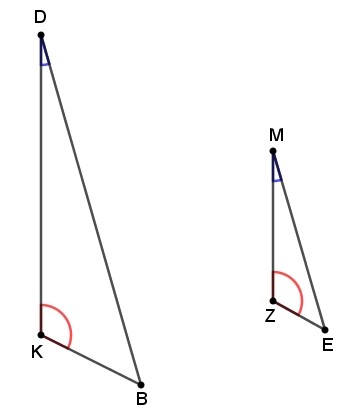
**Primjeri listića za vrednovanje kao učenje, vrednovanje za učenje i vrednovanje naučenoga**

**Vrednovanje kao učenje**

**Primjer 1:** Zadaci za vršnjačko vrednovanje (Prilog A)

● Pitanja:

* Jesu li nacrtani likovi slični?
* Matematičkim zapisom zapišite da su trokuti Δ*ABC* i Δ*GHI* slični.
* Trokuti na slici su slični. Zapišite to matematičkim zapisom.



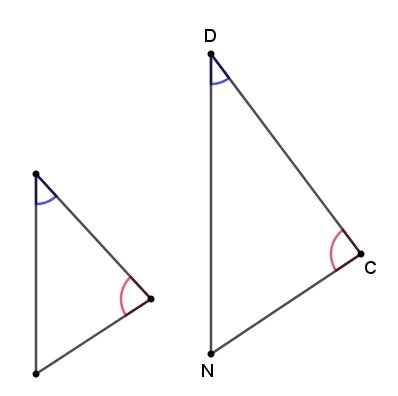
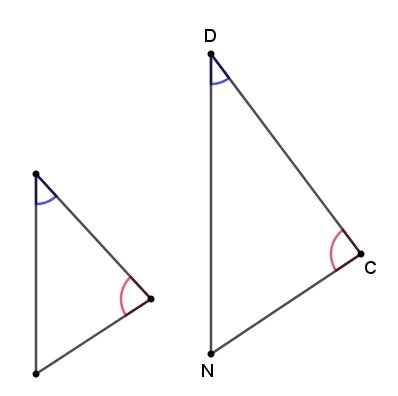
M

Z

C

♦ Pitanja:

* Jesu li nacrtani likovi slični?
* Matematičkim zapisom zapišite da su trokuti Δ*EFG* i Δ*DHI* slični.
* Trokuti na slici su slični. Zapišite to matematičkim zapisom.



M

P

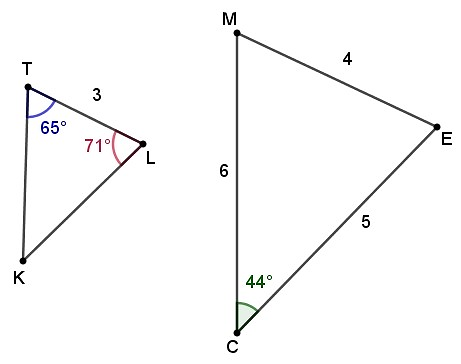
K

**Primjer 2:** Zadaci za vršnjačko vrednovanje (Prilog A)

● Pitanja:

* Jesu li trokuti kojima su stranice duljine 30, 28, 22 i 56, 60 i 45 slični? Obrazložite.
* Zadan je trokut Δ*ABC* s duljinama stranica *a* = 2. 1 cm, *b* = 3.6 cm i *c* = 4.4 cm.

Izračunajte duljine stranica njemu sličnog trokuta ΔDEF ako je koeficijent sličnosti *k* = 3.

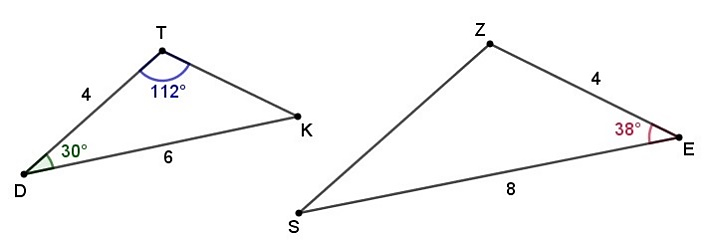
* Za par sličnih trokuta pronađite veličine koje su nepoznate.

♦ Pitanja:

* Jesu li trokuti kojima su stranice duljine 40, 28, 32 i 80, 100 i 70 slični? Obrazložite.
* Zadan je trokut Δ*ABC* s duljinama stranica *a* = 4. 1 cm, *b* = 3.6 cm i *c* = 5.2 cm.

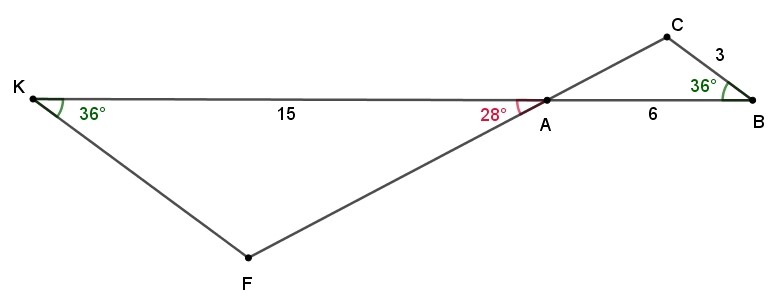
Izračunajte duljine stranica njemu sličnog trokuta ΔDEF ako je koeficijent sličnosti *k* = 4.

* Za par sličnih trokuta pronađite veličine koje su nepoznate.



**Primjer 3:** Lista za samoprocjenu 1 (Prilog B)

Tvrdnje:

* Određujem koeficijent sličnosti mnogokuta.
* Izračunavam nepoznatu duljinu stranice kvadrata ako je zadana duljina stranice njemu sličnoga kvadrata i koeficijent sličnosti.
* Uvećavam / umanjujem mnogokut.

**Vrednovanje za učenje**

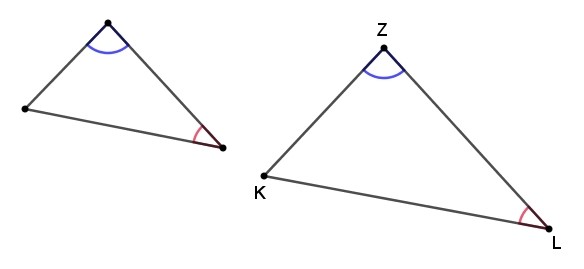
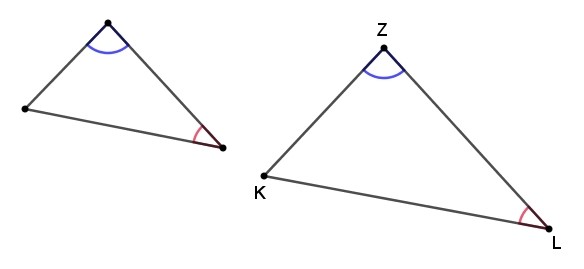
**Primjer 1:** Kviz (Prilog D)

Tvrdnje:

* Nacrtani likovi su slični.
*  je simbol za sličnost.
* Dva su trokuta slična ako su im odgovarajući kutovi sukladni, a duljine odgovarajućih stranica proporcionalne.

Zadatci:

Na slici je par sličnih trokuta.



P

S

R

* Matematičkim zapisom ispravno zapišite oznake sličnih trokuta.
* Ispišite sve parove odgovarajućih stranica.

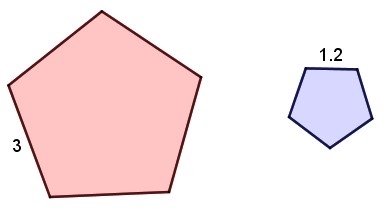
**Primjer 2:** Izlazna kartica

Učenici odgovaraju na postavljene zadatke na listić papira.

1. Koeficijent sličnosti dvaju trokuta je . Odredite duljine stranica većeg trokuta ako su duljine stranica manjeg trokuta 3 cm, 5 cm i 7 cm.
2. Trokuti na slici su slični. Odredite duljinu dužine .

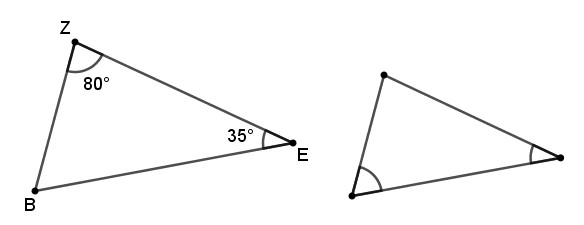
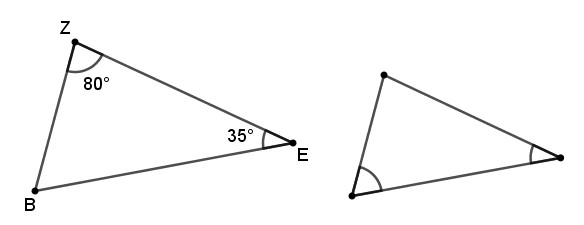
**Primjer 3:** Izlazna kartica

Učenici odgovaraju na postavljene zadatke na listić papira.

1. Na slici su pravilni peterokuti. Jesu li oni slični? Ako su slični odredite koeficijent sličnosti.
2. Koeficijent sličnosti dvaju pravokutnika je  . Odredite duljine stranica većeg pravokutnika ako su duljine susjednih stranica manjeg pravokutnika 11.2 cm i 8.4 cm.

**Nastavni listić**

1. Mnogokuti na slici su slični. Tu sličnost zapišite matematičkim zapisom.



**P**

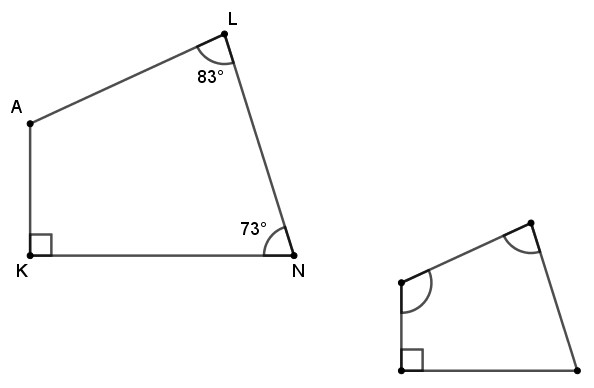
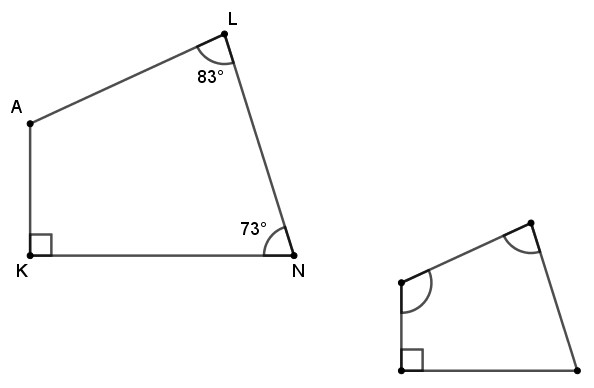
**C**

**K**

**35°**

**65°**

a) b)



**V**

**U**

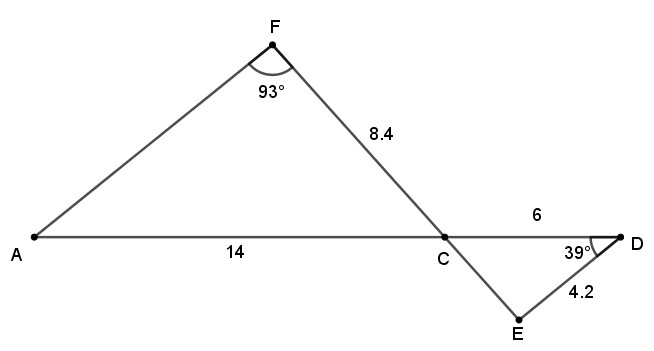
**S**

**W**

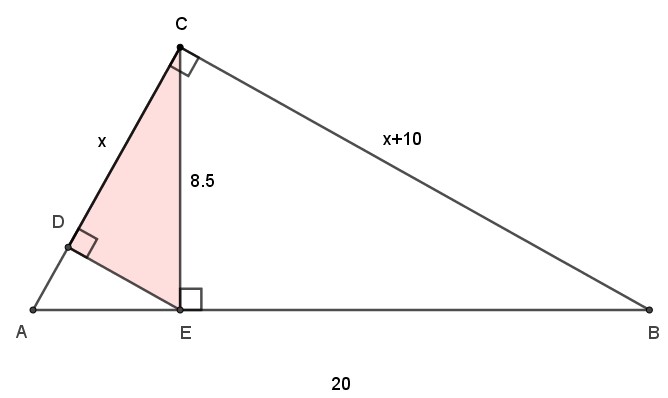
**115°**

**83°**

2. Neka je . Odredite veličine koje su nepoznate.



3. Neka je . Odredite *x*. Rezultat zaokružite na jednu decimalu.



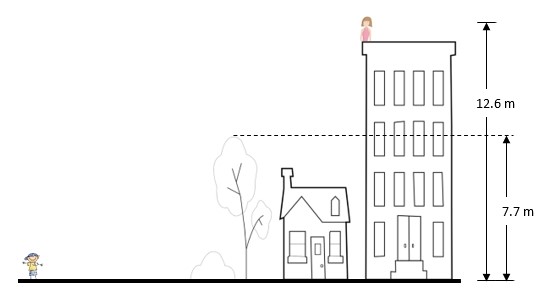
4. Konstruirajte kvadrat stranice duljine 5 cm, a zatim konstruirajte njemu sličan kvadrat tako da su

duljine stranica prvog kvadrata u omjeri 2 : 3 prema duljinama stranica drugog kvadrata.

5. Majka se nalazi na krovnoj terasi zgrade i promatra Pericu koji se vraća iz škole. U trenutku kada stablo

počinje onemogućavati majci pogled na Pericu, udaljenost između Perice i stabla iznosi 11 m. Koliko je u

tom trenutku Perica udaljen od zgrade?



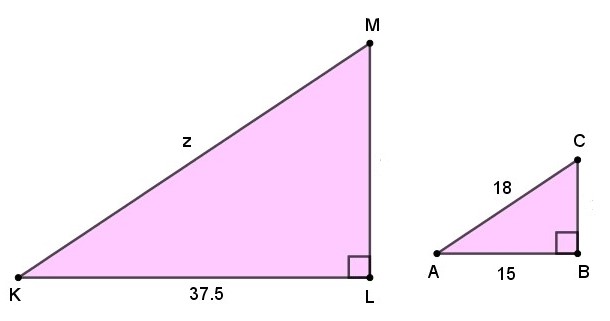
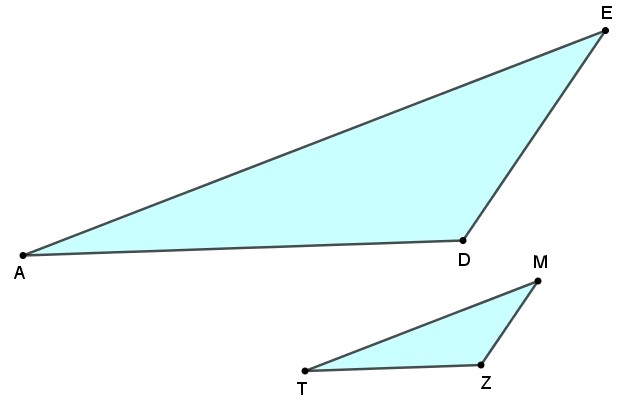
**Dopunski zadatci**

1. Dopunite.

* Dva su trokuta slična ako su im odgovarajući kutovi \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, a

duljine odgovarajućih stranica \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

* Da su trokuti i  slični matematički zapisujemo: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ .

2. Za par sličnih trokuta navedite odgovarajuće 3. Neka su trokuti i slični.

kutove i odgovarajuće stranice. Izračunajte *z*.

4. Trokuti Δ*ABC* i Δ*DEF* su slični. Duljine stranica prvog trokuta su *a* = 9 cm, *b* = 8 cm i *c* = 12 cm. Najkraća

stranica drugog trokuta dugačka je 6 cm. Izračunajte koeficijent sličnosti i duljine ostalih stranica drugog

trokuta.

5. Stablo baca sjenu dugačku 9.9 m istodobno kada djevojčica visine 1.2 m baca sjenu dugačku 180 cm.

Kolika je visina stabla?

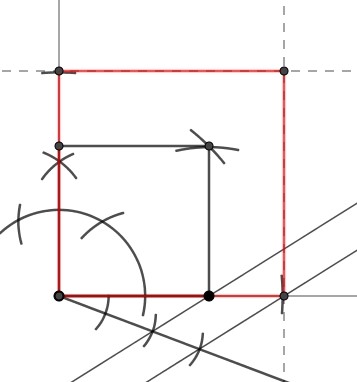


**Rješenja nastavnog listića**

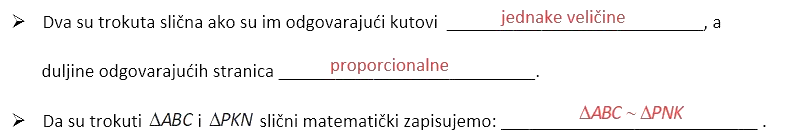
1. a) , b) 

2. , , , , 

3. 

4.

5. 18 m

**Rješenja dopunskih zadataka**

1.

2. Odgovarajući kutovi su: ,  te .

Odgovarajuće stranice su: ,  te .

3. *z* = 45

4. , d = 6.25 cm, f = 9 cm.

5. 6.6 m