



Ocak 2021 Ödüllü Soru ve Cevapları

Soru 1:

- 31415 → 3
92653 → 2
14790 → 5
32384 → 3
62643 → 4
95028 → 3
84197 → 2
16939 → 2
93751 → 3
97494 → ?
45923 → ?
40628 → 3
62089 → 2
98628 → 3
53421 → 2
17067 → 2
98214 → 3
46410 → 6

Cevap 1:

$$97494 \rightarrow 3$$

$$45923 \rightarrow 2$$

Verilen sayıların kaç adet tekil asal çarpanı olduğu bilgisi okların sağına yazılmıştır:

$$31415 = 5 \times 61 \times 103 \rightarrow 3 \text{ tane}$$

$$92653 = 11 \times 8423 \rightarrow 2 \text{ tane}$$

$$14790 = 2 \times 3 \times 5 \times 17 \times 29 \rightarrow 5 \text{ tane}$$

...

Aynı kural sorulan ifadelere uygulanırsa yukarıda verilen cevaplara ulaşılır.

Soru 2:

1923 →

33029981499766545975250387593631154365865486756397716575468
20060070767890237262980287553534752719994144537641348714019
45863424316247498974525140884502213619463897242701793280976
31461952294095270767865635586631555581345370914627039648386
47119725901005531625449894773447561088824709646721461030578
49578011704570100638149372613055636349494040526380005363336
57387032210748682880747496191298232525345588332302069085594
90074266335686119389086728109131857268178177358562452804432
22830596087494005801000571579740438132076783124492309104396
50588893521307866539487242290377741262590436139422187296792
77004814480760664857947387003628330724321329497034004356360
25207134810624436376055618005498163855585536582182713434179
26136738352223962218196558479560270704007766935563004675540
144584780454164584612057619438539682241????

1071 →

30642318167480571409164658010719717265181862816326706566485
76236980578975879322180131982845674720103975656397757781370
42911368231841219676912587561489263387522458827405833982741
23851328687072968914234186410425109855847694953732235388518
11873809897413653258768503987008086400542379953099017450874
78334292106102999481966463887753635366239891166324837855091
25176147170608825055063370557627794216417720512653419435687
700721227898901351841658386787481297530

1299 →

65843788920229841025274785354330338805587263816427696574342
41685768583490488354446515285048818007914434191301644874914
31914001796528224170405384503181825189530567331637776887917
39980337360824859269124049525060601457514342622907371923934
53036568454055910347834635341914789251319556298229237972941
94220344055913681050862449150803140845999258108407901972864
93096202264597494059028313415898302292682437184836755035270
91474946895479078103910967094516890993265145972617439588883
18222241200246170335498998215066361456205473647509309616330
2966132522696810

Cevap 2:

6810

Verilen sayılardan daha küçük tüm asal sayıların çarpımları yazılmıştır:

$$1071 \rightarrow 2 \times 3 \times 5 \times \dots \times 1061 \times 1063 \times 1069 =$$

3064231816748057140916465801071971726518186281632670656648576236980578

9758793221801319828456747201039756563977577813704291136823184121967691

2587561489263387522458827405833982741238513286870729689142341864104251

0985584769495373223538851811873809897413653258768503987008086400542379

9530990174508747833429210610299948196646388775363536623989116632483785

5091251761471706088250550633705576277942164177205126534194356877007212

27898901351841658386787481297530

...

Aynı kural sorulan ifadeye uygulanırsa yukarıda verilen cevaba ulaşılır.

Soru 3:

Giresun → 11630989

İstanbul → 9671791

Diyarbakır → 11270953

Trabzon → 13445207

Burdur → 6491623

Balıkesir → 8055119

Kırıkkale → 80565??

Cevap 3:

97

İl isimlerindeki harf deęerleri yazılmıřtır:

Giresun → 7 11 20 5 21 24 16

Harf deęerlerini oluřturan rakamlar bykten kęe yan yana yazılmıřtır:

76542221111

Soldan ilk 6 rakamın oluřturduęu sayı X ise, P(X) sayısı ıktıyı oluřturmuřtur:

$X = 765422 \rightarrow P(765422) = 11630989$

...

Aynı kural sorulan ifadeye uygulanırsa yukarıda verilen cevaba ulařılır.