

## ***[Original article]***

toshichan-man's small theorem

(If prime, divide by 30 and 60 and 90, the remainder is a prime number including 1)

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### ***[Abstract]***

If prime, we found that the remainder is a prime number including 1 when divided by 30, 60 and 90.

This is called toshichan-man's small theorem.

It seems to be useful for prime number determination (especially huge prime number determination).

### ***[Discussion]***

(All molecules are prime numbers)

$$2713/30=90+13/30$$

$$2713/60=45+13/60$$

$$2713/90=30+13/90$$

$$4111/30=137+1/30$$

$$4111/60=68+31/60$$

$$4111/90=45+61/90$$

$$10223/30=340+23/30$$

$$10223/60=170+23/60$$

$$10223/90=113+53/90$$

$$25657/30=855+7/30$$

$$25657/60=427+37/60$$

$$25657/90=285+7/90$$

$$32359/30=1078+19/30$$

$$32359/60=539+19/60$$

$$32359/90=359+49/90$$

$$39839/30=1327+29/30$$

$$39839/60=663+59/60$$

$$39839/90=442+59/90$$

$$39901/30=1330+1/30$$

$$39901/60=665+1/60$$

$$39901/90=443+31/90$$

$$39971/30=1332+11/30$$

$$39971/60=666+11/60$$

$$39971/90=444+11/90$$

$$41057/30=1368+17/30$$

$$41057/60=684+17/60$$

$$41057/90=456+17/90$$

$$101209/30=3373+19/30$$

$$101209/60=1686+49/60$$

$$101209/90=1124+49/90$$

$$1444291/30=48143+1/30$$

$$1444291/60=24071+31/60$$

$$1444291/90=16047+61/90$$

$$1444463/30=48148+23/30$$

$$1444463/60=24074+23/60$$

$$1444463/90=16049+53/90$$

$$1445173/30=48172+13/30$$

$$1445173/60=24086+13/60$$

$$1445173/90=16057+43/90$$

$$1633987/30=54466+7/30$$

$$1633987/60=27233+7/60$$

$$1633987/90=18155+37/90$$

$$1696369/30=56545+19/30$$

$$1696369/60=28272+49/60$$

$$1696369/90=18848+49/90$$

$$1696451/30=56548+11/30$$

$$1696451/60=28274+11/60$$

$$1696451/90=18849+41/90$$

$$1697459/30=56581+29/30$$

$$1697459/60=28290+59/60$$

$$1697459/90=18860+59/90$$

$$1886783/30=62892+23/30$$

$$1886783/60=31446+23/60$$

$$1886783/90=20964+23/90$$

$$1998587/30=66619+17/30$$

$$1998587/60=33309+47/60$$

$$1998587/90=22206+47/90$$

$$1998697/30=66623+7/30$$

$$1998697/60=33311+37/60$$

$$1998697/90=22207+67/90$$

$$1998961/30=66632+1/30$$

$$1998961/60=33316+1/60$$

$$1998961/90=22210+61/90$$

$$1999103/30=66636+23/30$$

$$1999103/60=33318+23/60$$

$$1999103/90=22212+23/90$$

$$1999681/30=66656+1/30$$

$$1999681/60=33328+1/60$$

$$1999681/90=22218+61/90$$

$$1999969/30=66665+19/30$$

$$1999969/60=33332+49/60$$

$$1999969/90=22221+79/90$$

(The calculation used wolframAlpha)

The prime number is 30 and makes one revolution. Hence 7, 37, 67, 97, 127, 157 or 11, 41, 71, 101, 131 or 23, 53, 83, 113 or 31, 61, 91, Prime number is  $30n + p$  ( $p = \text{prime}$ ) and so on.

## ***[Reference]***

- 1) [https://en.wikipedia.org/wiki/Prime\\_number](https://en.wikipedia.org/wiki/Prime_number)



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I am a psychiatrist now and also a doctor of brain surgery before.

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(I am very poor of English. Almost all document are google-translation.)