

All about the base (no trebles)

Tom Button
@tombutton

Threven, throver, thrunder

Even: $2n$

Odd: $2n+1$

Threven: $3n$

Throver: $3n+1$

Thrunder: $3n - 1$

$n^3 - n$ is threven

The product of two consecutive numbers is never throver

No triangle number is thrunder

Base-12 (dozenal)

1 2 3 4 5 6 7 8 9 X E 10
dek el do

$$1066_{10} = 11 \times 12^2 + 6 \times 12^1 + 10 \times 12^0$$
$$= \mathbf{E6X}_{12}$$

“el gro six do dek”

**All bases are
base 10**

**All prime numbers ($p > 3$) end in
1, 5, 7 or E**

...0

...6

...1

...7

...2

...8

...3

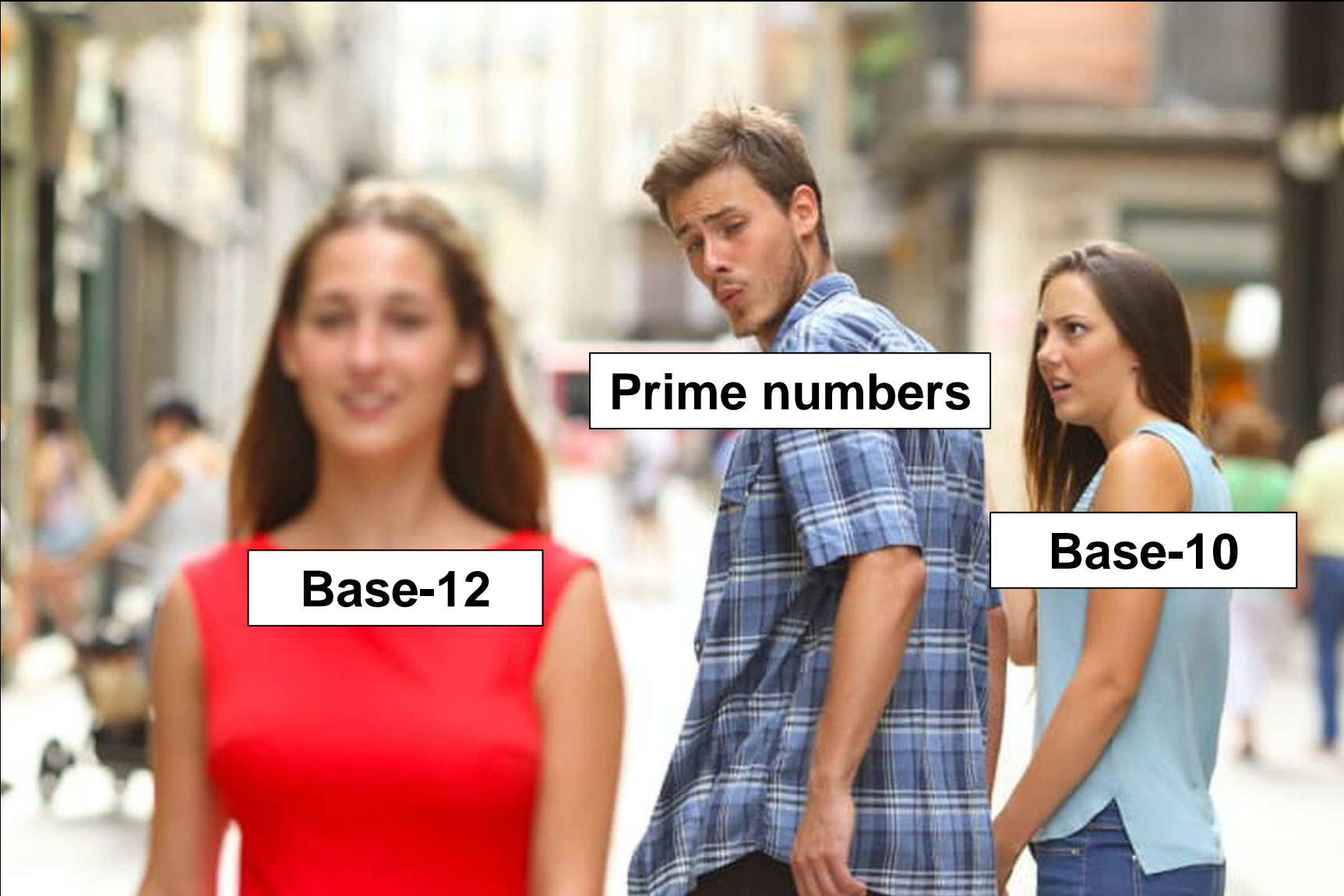
...9

...4

...X

...5

...E



Base-12

Prime numbers

Base-10

~~The square of a prime number
($p > 3$) is always 1 more than a
multiple of 24~~

**The square of a prime number
($p > 3$) is always 1 more than a
multiple of 20**

$$1^2 = 1$$

$$5^2 = 21$$

$$7^2 = 41$$

$$E^2 = X1$$

$$95^2 = 90^2 + 2 \times 90 \times 5 + 5^2$$

**The square of a prime number
($p > 3$) is always 1 more than a
multiple of 20**

**Thank you
@tombutton**