TRANSITIONAL (LEAP) YEAR 46 BCE

▸ Introduced to fix accumulated errors.

▸ "Annus confusionis" - the year of confusion.

▸ 15 months

▸ 445 days to last until new moon after shortest day in winter in 45 BCE.

1	Ianuarius	29
2	Februarius	24
	Intercalaris	27
3	Martius	31
4	Aprilis	29
5	Mauis	31
6	Iunius	29
7	Quintilius	31
8	Sextilis	29
9	September	29
10	October	31
11	November	29
	Undecember	33
	Duodecember	34
12	December	29

REFORMS

▸ Introduced in 8 BCE.

▸ Error detected: for 30+ years leap year was erroneously declared.

▸ After Julian reforms, leap years were added every 3rd year instead of 4th year: 45 BCE, 42, 39, 36, 33, 30, 27, 24, 21, 18, 15, 12 BCE.

▸ To correct the accumulated errors, 5 leap years were skipped. Next leap year was set to 12 CE.

  ▸ Java Calendar docs: "Dates obtained using GregorianCalendar are historically accurate only from March 1, 4 AD onward, when modern Julian calendar rules were adopted. Before this date, leap year rules were applied irregularly."

▸ Sextilis renamed to Augustus. "Romulus" was considered a possible name.