

# (O) We're Counting on Yoruba (1/2) [Solution]

## O1.

a. <i>àádota</i>	50	10 off 3(score)
b. <i>àrúndogórin</i>	85	5 + 4x20
c. <i>aárùndilogórin</i>	75	5 before 4x20
d. <i>ẹ̀tàdogórun</i>	103	3 + 5x20
e. <i>òkándilogóji</i>	39	1 before 20x2

Note: *òkán* has not been seen in the data but if you realise there are only words for 1-5 because of the counting back system, it must be 1: we've seen 2, 3, 4, 5.

## O2.

a. 12	<i>èjilá</i>	2 teen
b. 90	<i>àáadorun</i>	10 before 20x5
c. 57	<i>ẹ̀ẹ̀tádilogóta</i>	3 before 20x3
d. 45	<i>àrúndogóji</i>	5 + 20x2
e. 99	<i>òkándilogórun</i>	1 before 20x5

Yoruba's counting system is based on 20s, with counting back: the numbers 6, 7, 8, 9 are expressed as 4, 3, 2, 1 before the next ten. 30, 50, 70, 90 are expressed as 10 before the next 20.

In addition, the basic numbers undergo some tone pattern changes.

	Base number	Counting back + <i>dil</i>	Counting forward + <i>d</i>	X20 <i>ogó-</i>
1	<i>not shown</i>	<i>òkán</i>	<i>not shown</i>	<i>ogun</i> * (20)
2	<i>èji</i>	<i>eéji</i>	<i>èji</i>	<i>ji</i> (40)
3	<i>ẹ̀ta</i>	<i>ẹ̀ẹ̀tà</i>	<i>ẹ̀tà</i>	<i>ta</i> (60)
4	<i>ẹ̀rin</i>	<i>ẹ̀ẹ̀rìn</i>	<i>ẹ̀rìn</i>	<i>rin</i> (80)
5	<i>àrun</i>	<i>aárùn</i>	<i>àrùn</i>	<i>run</i> (100)
Tone pattern	` -	V' `	``	<i>ogó -</i>

Teens are expressed by adding *lá* to the base number. They are not shown here but there **are** base numbers for 6, 7, 8, 9, only used as units. Odd 20s are expressed by *àádo* '10 off'.

The base form of 1 and the form for counting forward, eg 21, 31, do not follow the same tone pattern, and so are not used here. \* Likewise 20 *ogun* is not fully regular. But since 20 is a special value, this is not surprising.



# (O) We're Counting on Yoruba (2/2) [Solution]

So the given data can be glossed as follows:

<i>èji</i>	2	
<i>ẹrin</i>	4	
<i>àrun</i>	5	
<i>ẹrinlá</i>	14	4 teen
<i>eéjidilogun</i>	18	2 before 20
<i>ẹẹ̀rìndilogóji</i>	36	4 before 20x2
<i>ẹ̀rìndogóji</i>	44	4 + 20x2
<i>àádorin</i>	70	10 off 4(score)
<i>ẹẹ̀tádilogórin</i>	77	3 before 20x4
<i>ẹ̀tádogórin</i>	83	3 + 20x4

