

$$\begin{array}{l}
 1. a) 1 \times 30 \\
 2 \times 15 \\
 3 \times 10 \\
 5 \times 6
 \end{array}$$

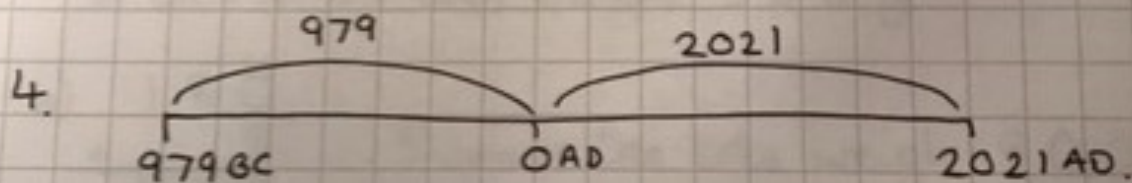
The factors of 30 are 1, 2, 3, 5, 6, 10, 15 and 30.

b) 30 is not a prime number because it has more than 2 factors.

$$\begin{array}{r}
 2. \quad 2021 \\
 - \quad 800 \\
 \hline
 1221
 \end{array}$$

The Mayan Civilisation began to decline 1221 years ago.

3. Xbalanque is correct. 165 ends in 5 so it must be in the 5 times table. 165 must have more than 2 factors as it has at least 1, 5 and 165. This means it is not a prime number.



The oldest Mayan sauna was built in 979 BC.

5. There were approximately 2,000,000 living Mayans.

$$6. a) 18 \times 20$$

$$18 \times 2 = 36$$

$$18 \times 20 = 360.$$

$$360 + 5 = 365.$$

A year in the Haab calendar is 365 days.

b) This is the same as the length of our years.

$$7. a) \begin{array}{r} 180 \\ \times \quad 5 \\ \hline 900 \end{array}$$

5 corn on the cobs weigh 900 g.

$$b) \begin{array}{r} 180 \\ \times \quad 7 \\ \hline 1260 \end{array}$$

7 corn on the cobs weigh 1260 g.

$$c) 180 \times 10 = 1800 \quad 10 \text{ corn on the cobs weigh } 1800 \text{ g.}$$

$$d) \begin{array}{r} 180 \\ \times \quad 23 \\ \hline 540 \quad (\times 3) \\ 3600 \quad (\times 20) \\ \hline 4140 \end{array}$$

23 corn on the cobs weigh 4140 g.

8. a)  $4 = 8$  halves.

If I used 4 onions, I ~~used~~ made 8 bowls of guacamole.

b)  $2\frac{1}{2} = 5$  halves.

If I used  $2\frac{1}{2}$  onions, I made 5 bowls of guacamole.

c)  $20 = 40$  halves.

If I used 20 onions, I made 40 bowls of guacamole.

d)  $75.5$

↑  
Remember  $0.5 = \frac{1}{2}$ .

$75\frac{1}{2} = 151$  halves

If I used  $75.5$  onions, I made 151 bowls of guacamole.