

At 15

$$9,345 \begin{cases} \rightarrow 15/5 \Rightarrow \text{It is divisible by 5} \\ \rightarrow 9+3+4+5/3 \Rightarrow 21/3 \Rightarrow \text{It is divisible by 3} \end{cases}$$

So, that is divisibility by 15

At 18

$$5,832 \begin{cases} \rightarrow 2/2 \Rightarrow \text{It is divisible by 2} \\ \rightarrow 5+8+3+2/9 \Rightarrow 18/9 \Rightarrow \text{It is divisible by 9} \end{cases}$$

Day-2

Divisibility rules for 7

$$(343) \div 7 = 34 - 6 = 28/7$$

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Ex:

$$147 \text{ (3)} \rightarrow \times 2 \Rightarrow 6$$

$$3 \times 2$$

$$147 - 6 = 141/7$$

It is divisibility by 7

Divisibility rules for 17

$$1904 \begin{array}{l} \downarrow \\ 4 \times 5 \end{array} \textcircled{17} = 190 - 20 = 170/17$$

It is divisibility by 17

Divisibility rules for 13

$$325 \begin{array}{l} \downarrow \\ 5 \times 4 \end{array} \textcircled{13} = 32 + 20 = 52/13$$

It is divisibility by 13

Divisibility rules for 19

$$361 \begin{array}{l} \downarrow \\ 1 \times 2 \end{array} 19 = 36 + 2 = 38/19$$

It is divisibility by 19

Divisibility rules for 11

$$\begin{array}{ccc} 9 & 17 & 4 \\ \textcircled{0} & \textcircled{0} & \textcircled{0} \end{array} \textcircled{11} = (9+7) - (1+4) = 16 - 5 = 11/11$$

It is divisibility by 11