

Strand: Numbers and Operations **Name:** KEY
Skill Addressed: Multiplication Skills and Facts **Block:**
Activity: Divisibility Rules with the Multiplication Chart

Look at the Multiplication Chart:

Under the **2** there is a column of numbers that are “Multiples of **2**”

Complete the following statements. Some of them are a little more complicated than others, but try your best to make sense of them.

A) I know that 14 is a multiple of **2** because: it ends with an even digit like 0, 2, 4, 6, 8 (in the “ones” place)
2 is a FACTOR of 14

B) I know that 45 is a multiple of **3** because: if I add the digits $4 + 5 = 9$ (this is called the digital root), and the result (9) is divisible by 3
3 is a FACTOR of 45

C) I know that 24 is a multiple of **4** because: I can divide it by 2 twice (ex. $24 \div 2 = 12$; and again $12 \div 2 = 6$)
4 is a FACTOR of 24

You can choose your own number from the chart to answer C, D, and E below:

D) I know that 85 is a multiple of **5** because: it ends with a 0 or a 5 (in the “ones” place)
5 is a FACTOR of 85

E) I know that 42 is a multiple of **6** because: of two reasons: it is even, so it is divisible by 2, and also, its digital root is $4+2=6$, and 6 is divisible by 3. If the number is divisible by 2 and 3, then it is divisible by 6.
6 is a FACTOR of 42