$$a = qb$$
 $(r=0)$

bla

- " b divides a"
- "b is a divisor of a"
- " b is a factor of a"

These are all the same thing!

You should be able to instantly recognize them and easily be able to transition from one def.

When we work with division in this section, everthing is in Z and we never actually use Q (i.e. Just mentally remember that even if you're thinking \$\frac{1}{2}\$, don't think of it as a fraction — think to two separate integers a and b)

Exercise 3.1.6

- - 1 a since a = (a)(1)
- -1/a since a = (-a)(-1)

- a[0] since 0 = (0)(a)

Remember:

- "I divides anything"
- " Anything divides 0"