Simplifying Fractions

START HERE
Do both numbers end in 0?

→ **YES** Divide the numerator and denominator by 10 — **10**

NO
Do both numbers end in 0 or 5?

→ **YES** Divide the numerator and denominator by 5 — **5**

NO
Are both numbers even?

→ **YES** Divide the numerator and denominator by 2 — **2**

NO
For both numbers, is 3 a factor of the sum of their digits?
[24: 2+4 =6 YES
352: 3+5+2 =10 NO]

→ **YES** Divide the numerator and denominator by 3 — **3**

NO
Is the numerator or the denominator less than 7?

→ **YES** You're finished!

NO
Is 7 a factor of both numbers?

→ **YES** Divide the numerator and denominator by 7 — **7**

NO
Is the numerator or the denominator less than 11?

→ **YES** You're finished!

NO
Is 11 a factor of both numbers?

→ **YES** Divide the numerator and denominator by 11 — **11**

YOU'RE PROBABLY FINISHED!
If the numerator and denominator are 13 or above, you can keep checking prime numbers

13 **17** **19** **...**