SIMPLE OPERATIONS

- The sum of a and b is written: a + b
- The difference of a and b is written: a b
- The product of a and b is written: $a \times b$ which is often simplified as ab
- The quotient of a and b is written: $a \div b$ which is often simplified as

• $a \times a$ is noted a^2 (we say "a square")

CANCELLING COMMON FACTORS

Fractions must be simplified whenever possible, by cancelling common factors.

example 1:
$$\frac{{}^{3}\cancel{15}x\cancel{y}}{{}^{4}\cancel{20}\cancel{y}z} = \frac{3x}{4z}$$

example 2:
$$\frac{10ab}{15bc} = \frac{{}^{2}\cancel{10} \times a \times \cancel{b}}{{}^{3}\cancel{15} \times \cancel{b} \times c} = \frac{2a}{3c}$$

example 3:
$$\frac{18x^2y}{8xz} = \frac{918 \times x \times x \times y}{48 \times x \times z} = \frac{9xy}{4z}$$