Reading from right to left the equality given by the distributive property, we have the expression

$$\frac{a}{b}\cdot\frac{c}{d}+\frac{a}{b}\cdot\frac{n}{m}$$

which can be written:

$$\frac{a}{b}\cdot\left(\frac{c}{d}+\frac{n}{m}\right)$$

We call this process extracting common factor since we have found a factor, that is a number that is multiplying, common to both addends of the expression.

Namely

$$\frac{a}{b}\cdot\frac{c}{d}+\frac{a}{b}\cdot\frac{n}{m}=\frac{a}{b}\cdot\left(\frac{c}{d}+\frac{n}{m}\right)=\frac{a}{b}\cdot\left(\frac{c}{d}+\frac{n}{m}\right)$$

which means that the sum of two products has been converted into the product of a number by a sum.

Let's see how to extract the common factor in the expression:

$$\frac{1}{5}\cdot\frac{2}{3}+\frac{1}{5}\cdot 4-\frac{1}{5}\cdot\frac{1}{2}$$

The common factor in all three addends is the fraction $\frac{1}{5}$, so:

$$\frac{1}{5}\cdot\frac{2}{3}+\frac{1}{5}\cdot 4-\frac{1}{5}\cdot\frac{1}{2}=\frac{1}{5}\cdot\frac{1}{5}\cdot 4+\frac{1}{5}\cdot\left(-\frac{1}{2}\right)=$$
$$=\frac{1}{5}\cdot\left[\frac{2}{3}+4+\left(-\frac{1}{2}\right)\right]=\frac{1}{5}\cdot\left[\frac{2}{3}+4-\frac{1}{2}\right]$$