Question

What is 3082.24 divided by 24?

Solution

We have

$$\frac{3082.24}{24}.$$

Multiplying the numerator and denominator by 100 we get

$$\frac{308224}{2400}.$$

Dividing the numerator and the denominator by 32 we obtain

$$\frac{308224}{2400} = \frac{308224 : 32}{2400 : 32} = \frac{9632}{75} = \frac{9600+32}{75} = \frac{9600}{75} + \frac{32}{75} = 128 + \frac{32}{75} = 128\frac{32}{75}.$$

Answer: $128\frac{32}{75}.$