

EXERCISE 2.6



1. Find:

- (i) 0.2×6 (ii) 8×4.6 (iii) 2.71×5 (iv) 20.1×4
 (v) 0.05×7 (vi) 211.02×4 (vii) 2×0.86

2. Find the area of rectangle whose length is 5.7cm and breadth is 3 cm.

3. Find:

- (i) 1.3×10 (ii) 36.8×10 (iii) 153.7×10 (iv) 168.07×10
 (v) 31.1×100 (vi) 156.1×100 (vii) 3.62×100 (viii) 43.07×100
 (ix) 0.5×10 (x) 0.08×10 (xi) 0.9×100 (xii) 0.03×1000

4. A two-wheeler covers a distance of 55.3 km in one litre of petrol. How much distance will it cover in 10 litres of petrol?

5. Find:

- (i) 2.5×0.3 (ii) 0.1×51.7 (iii) 0.2×316.8 (iv) 1.3×3.1
 (v) 0.5×0.05 (vi) 11.2×0.15 (vii) 1.07×0.02
 (viii) 10.05×1.05 (ix) 101.01×0.01 (x) 100.01×1.1

2.7 DIVISION OF DECIMAL NUMBERS

Savita was preparing a design to decorate her classroom. She needed a few coloured strips of paper of length 1.9 cm each. She had a strip of coloured paper of length 9.5 cm. How many pieces of the required length will she get out of this strip? She thought it would



be $\frac{9.5}{1.9}$ cm. Is she correct?

Both 9.5 and 1.9 are decimal numbers. So we need to know the division of decimal numbers too!

2.7.1 Division by 10, 100 and 1000

Let us find the division of a decimal number by 10, 100 and 1000.

Consider $31.5 \div 10$.

$$31.5 \div 10 = \frac{315}{10} \times \frac{1}{10} = \frac{315}{100} = 3.15$$

$$\text{Similarly, } 31.5 \div 100 = \frac{315}{10} \div \frac{1}{100} = \frac{315}{1000} = 0.315$$

Let us see if we can find a pattern for dividing numbers by 10, 100 or 1000. This may help us in dividing numbers by 10, 100 or 1000 in a shorter way.

$31.5 \div 10 = 3.15$	$231.5 \div 10 = \underline{\quad}$	$1.5 \div 10 = \underline{\quad}$	$29.36 \div 10 = \underline{\quad}$
$31.5 \div 100 = 0.315$	$231.5 \div 100 = \underline{\quad}$	$1.5 \div 100 = \underline{\quad}$	$29.36 \div 100 = \underline{\quad}$
$31.5 \div 1000 = 0.0315$	$231.5 \div 1000 = \underline{\quad}$	$1.5 \div 1000 = \underline{\quad}$	$29.36 \div 1000 = \underline{\quad}$