

16) Length

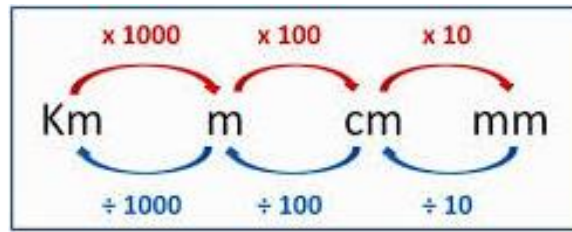
Recap

Units of length

1cm=10mm

1m= 100cm

1km=1000m



5km = 5 m **Need to x 1000** 5 x 1000 = 5000m ✓
 120cm = 1.2 m **Need to ÷ 100** 120 ÷ 100 = 1.2m ✓

56x10=560 56÷10=5.6
 5.6x10=56 5.6÷10=0.56
 5.6x100=560
 5.6÷100=0.056
 0.056x10=0.56 0.5÷10=0.05

Eg: i) 18mm = 10mm+8mm ii) 543cm= 500cm+43cm iii) 304cm= 300cm+4cm iv) 12087m= 12000m+87m
 =1.8cm (8÷10=0.8) =5.43m (43÷100=0.43) =3.04m (4÷100=0.04) =12.087km (87÷1000=0.087)

Do the review exercise given in page 37 to revise what you have learnt.

Addition and subtraction of length measurements

Eg: Add 24m 14cm and 35m 13cm

m	cm
24	14
+	35
59	27

Km	m
10	
10	17
21	750
- 13	800
7	950

Complete the exercise 16.1 & 16.2
 Question 1&2 compulsory, rest of it optional.

Multiplication and division of measurements of lengths

Multiply 8 km 198 m by 8

8 km 198 m = 8 x 1000 m + 198 m
 = 8000 m + 198 m
 = **8198 m**

First, convert 8km 198m into meters.

Now multiply 8198 m by 8

8198
 x 8

 65584

65584m÷1000= quotient 65 remainder 584, so that
8km 198m x 8 = 65km 584m

Multiply 28 m 12 cm by 18

28 m 12 cm = 28 x 100 cm + 12 cm
 = 2800 cm + 12 cm
 = **2812 cm**

First, convert 28m 12cm into cm.

2812
 x 18

 22496
 28120

 50616

50616cm÷100= quotient 506 remainder 16, so that
28m 12cm x 18 = 506m 16cm

Complete the exercise 16.3
 Question 1&2 compulsory, rest of it optional.

18.06km long roads constructed equally by 3 contractors. How much road is constructed by each of them?

$$\begin{array}{r} 6.020 \\ 3 \overline{) 18.060} \\ \underline{18} \\ 0 \\ \underline{0 } \\ - 6 \\ \underline{00} \end{array}$$

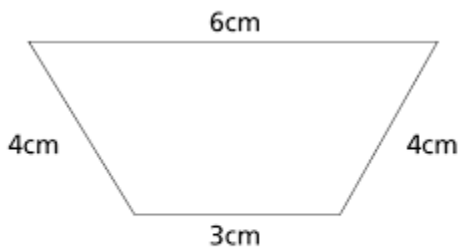
	km	m
	70	500
7	493	500
	49	
	003	3000
		3500
		35
		0000
	493km 500m ÷ 7 = 70km 500m	

Complete the exercise 16.4
Question 1&2 compulsory, rest of it optional.

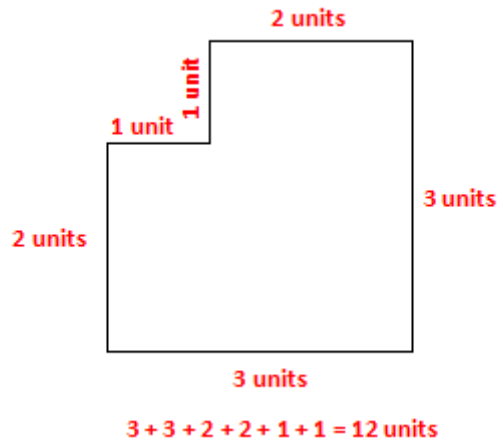
Perimeter

Recap: Length around a closed plane figure is called its perimeter.

Eg;



Perimeter of this trapezium is
 $6\text{cm} + 4\text{cm} + 3\text{cm} + 4\text{cm} = 17\text{cm}$



Complete the exercise 16.5
Question 1 to 5.