



Problems with Planting Trees

- 1** Joe puts 5 matchsticks on a table.
Each matchstick is 10 cm away from another.
How far is the fifth matchstick from the first one?

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- 2** A sailor ties 7 knots on a rope at regular intervals.
The distance from the first knot to the seventh one is 18 m long. What is the distance between every two knots?

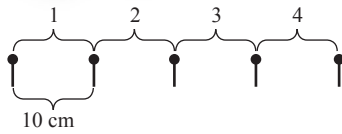
3 A road, 500 m long, is to be planted with trees at an interval of 5 m. How many trees can be planted if trees are planted at both ends of the road as well?

4 It takes John 8 minutes to saw a piece of log into 3 equal lengths. How long does it take for him to saw the same piece of log into 9 equal lengths?



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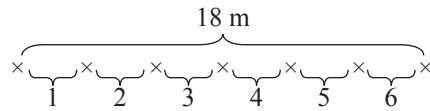
1



$$4 \times 10 \text{ cm} = 40 \text{ cm}$$

The fifth matchstick is **40 cm** from the first one.

2



$$18 \text{ m} \div 6 = 3 \text{ m}$$

The distance between every two knots is **3 m**.

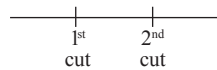
3

$$500 \text{ m} \div 5 \text{ m} = 100$$

$$100 + 1 = 101$$

101 trees can be planted.

4



$$8 \text{ mins} \div 2 = 4 \text{ mins}$$

$$9 - 1 = 8 \text{ cuts}$$

$$8 \times 4 = 32 \text{ mins}$$

It takes **32 mins** for him to saw the same piece of log into 9 equal lengths.