

1.
2.
3.
4.
5.
6.
7.
8. If the striped post is 2 feet longer than the spotted post, then the spotted post is $4\text{yd}\&1\text{ft} - 2\text{ft} = 3\text{yd}\&2\text{ft}$. After the striped post is cut, it is 2 yd 2 ft shorter than the spotted post. So now the striped post is $3\text{yd}\&2\text{ft} - 2\text{yd}\&2\text{ft} = 1\text{yd}$. So the striped post is now 1 yard tall. It was originally 4 yd 1 ft, so the portion that was cut is $4\text{yd}\&1\text{ft} - 1\text{yd} = \boxed{3\text{ yd } 1\text{ ft}}$.
9.
10. There 100 cm in a meter. So let's find the length 10 m 90 cm in only cm. $10\text{m} \times 100\text{cm}/\text{m} = 1,000\text{cm}$. So the length of the wire is $1000 + 90 = 1090$ cm. It is bent into a rectangle. The length is 312, so we know that $2 \times 312 = 624$ of the centimeters of wire are used on the length (it's 2 times because there are 2 lengths and 2 widths in the rectangle). So there are $1090 - 624 = 466$ cm of wire left for the other two sides. The two widths are equal length, so half of the 466 cm is used to make BC and half to make DA . So we divide $466 \div 2 = \boxed{233\text{ cm}}$