Emma has three rulers: a white one that is 15 cm long, a yellow one that is 25 cm long and a brown one that is 10 cm long.

1. Which ruler is the shortest?

2. Compared to the shortest ruler, how much longer is the longest ruler?

3. Emma's pencil case is 20 cm long. Which rulers cannot fit in her pencil case?

4. What is the length of the longest line she can draw when she puts together the white and yellow rulers?

5. The white ruler breaks into two pieces. If one piece is 6 cm long, what is the length of the other piece?

6. Emma buys a blue ruler to replace the broken white one. The new blue ruler is 18 cm long. Compared to the white ruler, how much longer is the new blue ruler?
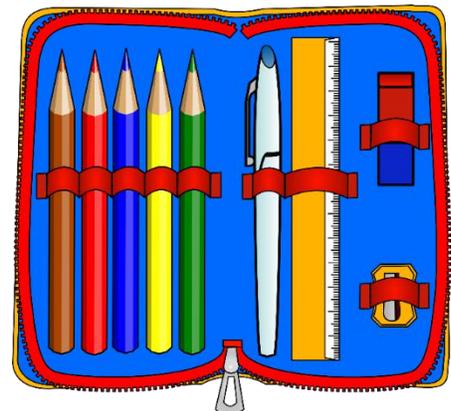
Answers

1. Brown ruler

2. 25 – 10 = 15
   The longest ruler (yellow) is 15 cm shorter than the shortest ruler (brown).

3. Yellow ruler

4. 15 + 25 = 40
   The length of the longest line she can draw is 40 cm.

5. 15 – 6 = 9
   The length of the other piece is 9 cm.

6. 18 – 15 = 3
   The new blue ruler is 3 cm longer than the white ruler.