Q1.Haretown and Tortoiseville are 88 miles apart. A hare travels at 10 miles per hour from Haretown to Tortoiseville, while a tortoise travels at 1 mile per hour from Tortoiseville to Haretown.

If both set out at the same time, how many miles will the hare have to travel before meeting the tortoise en route?

Q2. Mr Wrinkle spent one-fourth of his life as a boy, one-eighth as a youth, and one-half as an active man. If Mr Wrinkle spent 12 years as an old man, then how many years did he spend as an active man?

Q3. Every day you put some money in your new piggy bank in such a way that the money in the piggy bank doubles with each passing day.

If you already have 1p in the piggy bank and you add 1p on the first day, 2p the second day, 4p the third day and so on, then your piggy bank gets full on the 9th day. On which day will your piggy bank be half full?

Q4. Mr. Brown has 12 black gloves and 8 brown gloves in his closet. He blindly picks up some gloves from the drawer. What is the minimum number of gloves Mr. Brown will have to pick to be certain to find a pair of gloves of the same colour?

Q6. Last weekend at the local park I saw that there were a total of 13 bicycles and tricycles. If the total number of wheels was 31, how many tricycles were there?

Q7. A 33 cm x 33 cm square metal plate needs to be fixed by a carpenter on to a wooden board. The carpenter uses nails all along the edges of the square such that there are 34 nails on each side of the square. Each nail is at the same distance from the neighbouring nails. How many nails does the carpenter use?

Q8. A pillar 8 metres tall casts a shadow 2 metres long on the ground. If the pillar was 28 metres tall, how many metres in length would the shadow be?