PERCENTAGE OF NUMBER PROBLEMS 3A

Find the answers to these percentage of number word problems.

Can you spot the impossible/trick problem?

1) A bike costs $200 but is reduced by 30% in a sale.
   How much is the bike reduced by?

   What does it cost in the sale?

2) A bag contains some red, blue and yellow balls. 30% of the balls are blue and 40% are red.
   If there are 50 balls in the bag, how many are yellow?

3) I toss a coin more than 60 times. It comes down tails 40% of the time.
   How many heads did I toss?

4) A piece of hematite contains 70% iron. If the hematite weighed 60g, how much iron would there be?

5) In a basketball game, Sally is the top scorer with 40% of the team's points.
   If the team scored 30 points, how many has Sally scored?

6) A survey of 250 trees in a small wood showed that 30% were oak trees, 20% were birch trees and the remainder were pine trees.
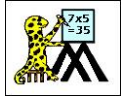   How many pine trees were there?

7) A toy helicopter costs $60 before sales tax. If the sales tax is 10%, how much would it cost to buy?

8) In a school survey of 300 pupils, 70% walk to school regularly.
   How many children is this?

Did you manage to find the impossible problem?

PERCENTAGE OF NUMBER PROBLEMS 3A ANSWERS

1) A bike costs $200 but is reduced by 30% in a sale.
   How much is the bike reduced by?
   Answer: $60
   What does it cost in the sale?
   Answer: $140

2) A bag contains some red, blue and yellow balls. 30% of the balls are blue and 40% are red.
   If there are 50 balls in the bag, how many are yellow?

   Answer: 15 yellow balls

3) I toss a coin more than 60 times. It comes down tails 40% of the time. How many heads did I toss?

   Impossible question – we do not know the exact number of tosses.

4) A piece of hematite contains 70% iron. If the hematite weighed 60g, how much iron would there be?

   Answer: 42g of iron

5) In a basketball game, Sally is the top scorer with 40% of the team's points. If the team scored 30 points, how many has Sally scored?

   Answer: 12 points

6) A survey of 250 trees in a small wood showed that 30% were oak trees, 20% were birch trees and the remainder were pine trees. How many pine trees were there?

   Answer: 125 pine trees

7) A toy helicopter costs $60 before sales tax. If the sales tax is 10%, how much would it cost to buy?

   Answer: $66

8) In a school survey of 300 pupils, 70% walk to school regularly. How many children is this?

   Answer: 210 children