PERCENTAGE OF NUMBER PROBLEMS 3B

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 35% 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. 32% of the balls are blue and 44% 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 45% of the time.
   How many heads did I toss?

4) A piece of hematite contains 72% iron. If the hematite weighed 150g, how much iron would there be?

5) In a basketball game, Sally is the top scorer with 35% of the team's points. If the team scored 120 points in total, how many points did Sally score?

6) A survey of 250 trees in a small wood showed that 32% were oak trees, 26% were birch trees and the remainder were pine trees. How many pine trees were there?
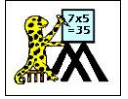
7) A toy helicopter costs $64 before sales tax. If the sales tax is 10%, how much would it cost to buy?

8) In a school survey of 300 pupils, 63% walk to school regularly. How many children is this?

Did you manage to find the impossible problem?

PERCENTAGE OF NUMBER PROBLEMS 3B ANSWERS

1) A bike costs $200 but is reduced by 35% in a sale.
How much is the bike reduced by?
Answer: $70
What does it cost in the sale?
Answer: $130

2) A bag contains some red, blue and yellow balls. 32% of the balls are blue and 44% are red.
If there are 50 balls in the bag, how many are yellow?

Answer: 12 yellow balls

3) I toss a coin more than 60 times. It comes down tails 45% 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 72% iron. If the hematite weighed 150g, how much iron would there be?

Answer: 108g of iron

5) In a basketball game, Sally is the top scorer with 35% of the team's points. If the team scored 120 points in total, how many points did Sally score?

Answer: 42 points

6) A survey of 250 trees in a small wood showed that 32% were oak trees, 26% were birch trees and the remainder were pine trees. How many pine trees were there?

Answer: 105 pine trees

7) A toy helicopter costs $64 before sales tax. If the sales tax is 10%, how much would it cost to buy?

Answer: $70.40

8) In a school survey of 300 pupils, 63% walk to school regularly. How many children is this?

Answer: 189 children