PERCENTAGE OF NUMBER PROBLEMS 3C

Find the answers to these percentage of number word problems.

Can you spot the impossible/trick problem?

1) A bike costs $350 but is reduced by 35% in a sale.
   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 150 balls in the bag, how many are yellow?

3) I toss a coin lots of times. It comes down tails 42% of the time. How many heads did I toss?

4) A piece of hematite contains 72% iron. If the hematite weighed 160g, how much iron would there be?

5) In a basketball game, Sally is the top scorer with 45% of the team's points. If the team scored 120 points in total, how many points did the rest of the team score?

6) A survey of 1250 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 5%, how much would it cost to buy?

8) In a school survey of 450 pupils, 64% walk to school regularly. How many children is this?

Did you manage to find the impossible problem?

PERCENTAGE OF NUMBER PROBLEMS 3C ANSWERS

1) A bike costs $350 but is reduced by
35% in a sale.
What does it cost in the sale?

Answer: $227.50

2) A bag contains some red, blue and
yellow balls. 32% of the balls are
blue and 44% are red.
If there are 150 balls in the bag,
how many are yellow?

Answer: 36 yellow balls

3) I toss a coin lots of times. It comes
down tails 42% of the time. How
many heads did I toss?

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

4) A piece of hematite contains 72%
iron. If the hematite weighed
160g, how much iron would there
be?

Answer: 115.2g

5) In a basketball game, Sally is the top
scorer with 45% of the team's points.
If the team scored 120 points in total,
how many points did the rest of the
team score?

Answer: 66 points

6) A survey of 1250 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: 525 pine trees

7) A toy helicopter costs $64 before
sales tax. If the sales tax is 5%, how
much would it cost to buy?

Answer: $67.20

8) In a school survey of 450 pupils,
64% walk to school regularly.
How many children is this?

Answer: 288 children