Solving number problems   Resource sheet

Use what you know about place value, rounding and negative numbers to solve these problems.

1. Kyle looked at a number the teacher wrote on the board.
   Klye said, "To the nearest 10, that number rounds to 1 674 350."
   Give two possible values for the number on the board.

2. Sarah sees novels that cost £8 each.
   She wants to buy 6 of the novels.
   To the nearest £10, how much will she spend?

3. The attendance at a football match was 46 399 people.
   When Josh heard this, he told his friends
   "To the nearest 1000, there were 47 000 people at the match!"
   Did Josh round the number correctly? Explain your answer.

4. Elsa owes her mother £22. She pays her mother £5.
   Now Elsa wants to buy a new game for £34.
   How much money does Elsa need in order to finish paying back her mother
   AND buy the new game?

5.   **a.** The population of Belston is 723 572 people.
         What is the population to the nearest thousand?

         Sam says the population of Belston is 700 000 but Jane says
         the population is 720 000.

         b. Explain how they can both be correct.

6.   Chris is standing on a platform above a pond looking at the fish inside it.
         The floor of the platform is 3 metres above the surface of the pond.
         A green fish is swimming 2.5 metres below the surface of the pond.
         What is the distance between the floor of the platform and the fish?

7.   A submarine is moving 538 metres below the surface of the ocean.
         It rises 92 metres.
         To the nearest hundred metres, how far below the surface of the ocean is
         the submarine after it rises?