WALT: Use bar modelling to solve worded problems

1. Every day for 7 days Helen scored 7.5 in a test. On the eighth day she scored 8. What was her total score?
2. I cut 90 cm from 3.3m of string and shared the rest between 3 friends. How much string did they get each?
3. A bag only has blue and red marbles in. The ratio of blue to red marble in a bag is 9:7. If there are 360 blue marbles, how many marbles are in the bag?
4. Robert calculated 20% of 600. What answer does he get?
5. If 1/3 of a sum of money is £36, what is the sum of money?
6. There are 1200 pieces of glass in a stained glass window. One day, someone drops it will cleaning. The ratio of broken to ok glass is 3:5. How much glass needs to be replaced?
7. Solve the equation using a bar model: b-1.8=6.2
8. Solve the equation using a bar model: 8c=20
9. Solve the equation using a bar model: 4h+2=18
10. 2/9 of the people on a restaurant are adults. If there are 95 more children than adults, how many children are there in the restaurant?
11. At a football match the ratio of home seats to away seats is 10:3. If the stadium can only hold 650 people, how many seats are there for the away team fans?
12. To make the perfect cup of hot chocolate, you need 2 parts milk for every 7 parts melted chocolate. You need to make a big batch for a party and need 675ml. How much of each ingredient do you need?