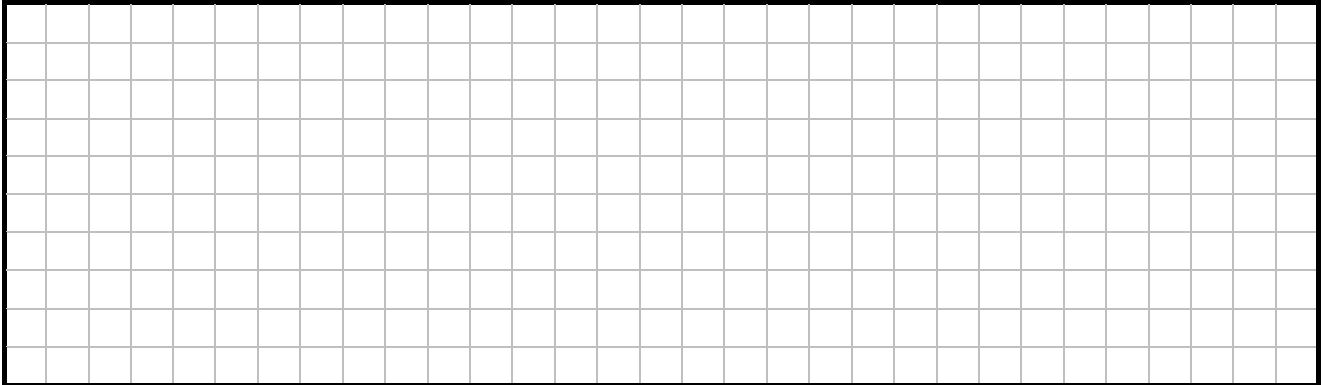
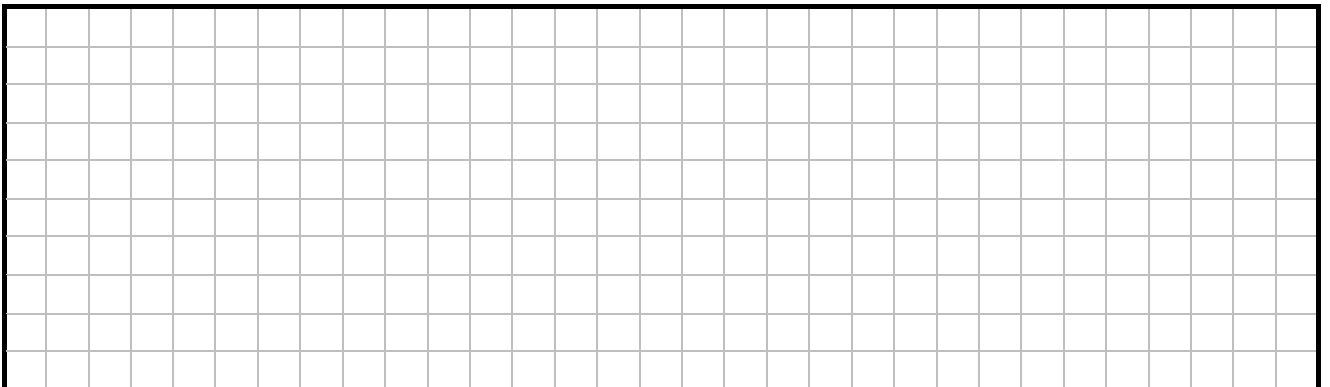


- (a) A cookery book gives the following instruction for calculating the amount of time for which a turkey should be cooked: "Allow 15 minutes per 450 grammes plus an extra 15 minutes." For how many hours and minutes should a turkey weighing 9 kilogrammes be cooked?



- (b) €5000 was invested for 3 years at compound interest. The rate for the first year was 4%. The rate for the second year was 4.5 % .

- (i) Find the amount of the investment at the end of the second year.



At the beginning of the third year a further IR£4000 was invested. The rate for the third year was  $r\%$ . The total investment at the end of the third year was IR£9811.36.

- (ii) Calculate the value of  $r$ .

