



Problem Solving Word problems

1. Class 7 needs to get to the museum at 11.30am. It is a 17minute walk from the museum. At which time must class 7 leave school if they are to arrive at the museum at exactly 11.30am?
2. Mr and Mrs Roberts have two daughters and three sons. At Easter time every member of the family buys one chocolate Easter egg for each other member. How many Easter eggs will be bought in total?
3. When travelling by aircraft, passengers have a maximum allowable weight of their luggage. They are then charged £10 for every kilogram overweight. If a passenger carrying 40kg of luggage is charged £50, how much would a passenger carrying 80kg be charged?
4. The digital root of the year 2007 is $2+0+0+7=9$, which is a square number. How many years during the twenty-first century (2001-2100) have a square digital root?
5. In my pocket I have exactly 15p, comprising of eight coins made up of 1p, 2p and 5p pieces. How many of each coin do I have?
6. A student has an average score of 85% after completing four tests. What is the lowest possible percentage score in any one of the tests?
7. Sue has 3 horses who each drink 9 gallons of water a day. When the taps froze in their field, she had to drive to them, taking their water in 4-gallon containers. She only has 3 of these. How many trips in her car did she have to make each day?
8. A tortoise and a hare race against each other. A hare runs at a constant speed of 36km per hour for exactly ten seconds and waits for the tortoise to catch up. If the tortoise takes two hours to move 1 km, how long will it take to catch up?
9. Auntie Histamine needs to take 15ml 3 times a day for 2 weeks. How much medicine will she have taken when she has finished?
10. A dog chasing a rabbit, which has a start of 45m, jumps 3m every time the rabbit jumps 2m. In how many leaps does the dog overtake the rabbit?
11. If the length of the hour and minute hand of a clock are 4cm and 6cm respectively, what is the distance in cm, between the tips of the hands at two o'clock?