

Solve the following problems:

a) Tim has a bag of 36 orange-flavoured sweets and Peter has a bag of 44 grape-flavoured sweets. They have to divide up the sweets into small trays with equal number of sweets; each tray containing either orange-flavoured or grape-flavoured sweets only. If there is no remainder, find the largest possible number of sweets in each tray.

Answer: sweets

b) Martin is pasting pieces of square coloured paper of equal size onto a board measuring 72 cm by 90 cm. If only whole square pieces are used, and the board is to be completely covered, find the largest possible length of the side of each square coloured paper.

Answer: cm

c) Two wires with lengths of 448 cm and 616 cm are to be cut into pieces of all the same length without remainder. Find the greatest possible length of the pieces.

Answer: cm

d) Janice and Jasmine were each given a piece of ribbon of equal length. Janice cuts her ribbons into equal lengths of 2 m, while Jasmine cuts her ribbons into equal lengths of 5 m. If there was no remainder in both cases, find the shortest possible length of ribbon given to them

Answer: metres

e) On a track for remote-controlled racing cars, racing car A completes the track in 28 seconds, while racing car B completes it in 24 seconds. If they both start at the same time, after how many seconds will they be side by side again?

Answer: seconds