



Number's Nest Weekly Challenge

Some dentists recommend that you brush your teeth twice a day for 2.5 minutes each time.

Assume for these problems that this recommendation has been followed. Also assume there are no leap years.

- a) How many seconds per day of brushing are required by this recommendation?

- b) Roughly how many hours would you brush your teeth in a year?

- c) An average child will have 20 teeth by the time they are 3. If they follow the dentist recommendations and brush each tooth the same amount, for how many seconds will each tooth be brushed a day?

- d) Some whale species have 240 teeth! How long would each tooth be brushed if they follow the dentist's recommendations for a whole year? (you can choose the most appropriate unit of time)

- e) The first dinosaur tooth was discovered by Mary Ann Mantell near Brighton about 200 years ago. If the discoverers immediately followed the advice of dentists and brushed this tooth according to the recommendations, for about how many weeks would they have brushed this tooth since its discovery?

Working Out:

Time Conversion List: (Look these up if you don't know them.)

___ seconds = 1 minute ___ days = 1 year

___ hours = 1 day ___ weeks = 1 year

___ days = 1 week

