

Number Nest Weekly Challenge



1. Betty is an experienced jigsaw puzzler. On average, she will correctly place a puzzle piece every 30 seconds.

a) How long, in minutes, should it take Betty to finish a 100 piece puzzle?

b) How long, in hours, should it take Betty to finish a 3000 piece puzzle?

c) How long, in hours and minutes, should it take Betty to finish a 10,000 piece puzzle?

d) Betty works on a puzzle from 7:00 p.m. to 9:00 p.m. every weekday (she does not work on her puzzle on Saturday or Sunday). If she started a new 10,000 piece puzzle on 16th January 2023, on which date would she finish?

e) Betty's friend Sally is a little quicker at correctly placing puzzle pieces. It takes Sally 18 seconds to correctly place a puzzle piece. How much faster, in minutes, would Sally finish a 7,525 piece puzzle than Betty?

f) John started working on a puzzle after dinner at 18:40 on Tuesday and he finished at 16:30 the next day. He stopped to go to bed at 20:30 on Tuesday and restarted the following morning after breakfast at 9:00. He then continued all morning and had a break for his lunch at 13:45. He restarted the puzzle at 14:30. If he placed a piece every 50 seconds, how many pieces did he place in total?

Time Conversion List

(Look these up if you don't know them).

___ seconds = 1 minute

___ minutes = 1 hour

January = _____ days

February = _____ days



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