

Harrison plans to make 15 dozen cookies for a family reunion.

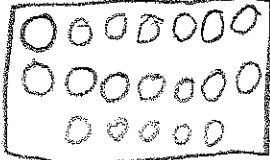
- a. How many cookies are equivalent to 15 dozen cookies? Show or explain how you got your answer.

Harrison will bake the cookies on cookie sheets. He will put 18 cookies on each cookie sheet. He will put 2 cookie sheets in his oven at the same time. The cookies take 10 minutes to bake.

- b. What is the total amount of baking time that it will take Harrison to bake all of the cookies? Show or explain how you got your answer.

$$\begin{array}{r} 15 \\ \times 12 \\ \hline 30 \\ 150 \\ \hline 170 \end{array}$$

170 cookies

b) I.  $\times 2 = 36$ cookies at a time
 $= 10$ minutes

$$\begin{array}{r} 4 \text{ } 20 \text{ } 5 \\ 36 \overline{) 180} \\ \underline{144} \\ 36 \end{array}$$
$$\begin{array}{r} 3 \\ 36 \overline{) 144} \\ \underline{108} \\ 36 \end{array}$$

- b) It will take 50 minutes for the cookies to bake because Harrison will have 36 cookies unbaked if he spends 40 min baking.

50 minutes

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(a)

$$\begin{array}{r} 12 \\ \times 15 \\ \hline 60 \\ + 120 \\ \hline 180 \end{array}$$

180 cookies

$$180 \div 18 = 10$$

cookies on each cookie sheet

180 cookies is equal to 15 dozens

(b)

$$10 - 2 - 2 - 2 - 2 - 2$$

+ 10

2 trays = 10 mins
4 trays = 20 mins
6 trays = 30 mins
8 trays = 40 mins
10 trays = 60 mins

I will take Harrison 60 mins to bake all the cookies