

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

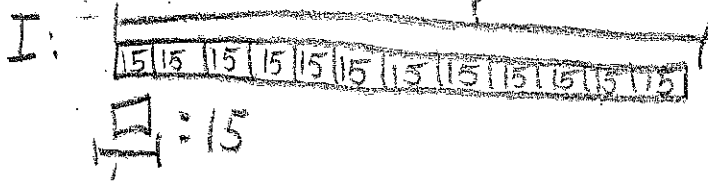
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- a. How many cookies are equivalent to 15 dozen cookies? Show or explain how you got your answer.

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.

a. D: 15 dozen cookies, 1 dozen = 12 Q: how many cookies?

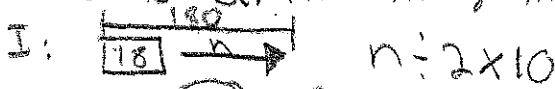


C: 
$$\begin{array}{r} 15 \\ \times 12 \\ \hline 30 \\ + 150 \\ \hline 180 \end{array}$$

$$\begin{array}{r} 12 \\ 15 \overline{) 180} \\ \underline{-15} \phantom{0} \\ 30 \end{array}$$

E: 180 cookies are equal to 15 dozens because there are 12 cookies per dozen  $\times$  15 dozens = 180 cookies.

b. D: 18 cookies per sheet 2 sheets in oven at once 10 min to bake Q: How many minutes?



C: 
$$\begin{array}{r} 10 \\ 18 \overline{) 180} \\ \underline{-18} \phantom{0} \\ 00 \end{array}$$

$$10 \div 2 = 5 \quad 5 \times 10 = 50$$

E: it will take 50 minutes to bake all of the cookies because there are 180 cookies  $\div$  18 cookies per tray = 10 tray and  $10 \div 2$  trays in the oven at once = 5 times the oven is used, and  $5 \times 10$  minutes each time = 50 minutes.

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- 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.

a. 15 dozen cookies = 180 cookies because dozen means 12 and  $12 \times 15 = 180$ .

$$\begin{array}{r} \text{Work: } 15 \\ \times 12 \\ \hline 30 \\ +150 \\ \hline 180 \end{array}$$

b. It will take Harrison 50 minutes to bake all of the cookies because 2 cookie sheets hold 36 cookies. 36 goes into 180 5 times. 2 sheets take 10 minutes to bake so  $5 \times 10 = 50$  minutes.

$$\text{Work: } 18 \times 2 = 36, \quad 36 = 10 \text{ minutes}, \quad 36 \overline{)180} = \begin{array}{r} 3 \\ 36 \\ \times 5 \\ \hline 180 \end{array}$$

Grade 5-Performance Task 2

$$\begin{array}{c} 5 \text{ of } 36 = 10 \times 5 = 50 \text{ minutes} \\ \text{sheets} \quad \text{cookies} \quad \text{minutes} \end{array}$$