

Name: Class:

Estimating Products Word Problems

a.

Killian likes collecting marbles. He has 885 marbles. Today, he bought 84 jars of marbles with each jar containing 472 marbles.

About how many marbles did he buy today?

b.

Yesterday, Mr Liam read a huge novel that had 683 words per page.

If the novel contains 87 pages, estimate the total number of words that the novel have.

c.

A jewelry company ordered 48 boxes of diamond.

If there were 89 diamonds per box, estimate the number of diamonds the company ordered in all?

d.

On Sunday, a butcher sold 958,330 pounds of ground beef. On, Monday, they sold thrice the amount.

About how many pounds of ground beef did they sell on Sunday?

e.

Leon's father spends \$8,347 annually.

About how much does he spends in 11 years?

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a. Number of marbles he has = 885
 Number of jars of marbles he bought today = 84
 Number of marbles in each jar = 472
 Therefore, the estimated number of marbles in all the 84 jars =
 number of jars of marbles he bought today × number of marbles in each jar
 $470 \times 80 = ?$
 Let's multiply 470×80
 How do you multiply numbers ending with zeroes?
 First multiply numbers without zeroes:

$$\begin{array}{r} 47 \\ \times \quad 8 \\ \hline 376 \end{array}$$

Then, count numbers of 0 and add it to the result
 $470 \times 80 = 37,600$

He bought about 37,600 marbles today.

b. The novel has about 61,200 words.

c. Therefore, the company ordered about 4,500 diamonds in all.

d. The supermarket sold about 3,000,000 pounds of ground beef on Sunday.

e. He spent about \$83,500 in 11 years.