

Name: Class:

Multiply three or more numbers: word problems.

- a. It is Tracy's friend's Birthday party. To support her, Tracy's Mum has prepared **6 big trays of sandwich**. In each tray, there are **17 rows of sandwich**. If each row has **29 sandwiches**, how many sandwiches has Tracy's mother prepared?
- b. An office building has **17 floors**. Each floor has **16 rooms** and in each room there are **2 doors**. How many doors are there in **10** of such office buildings?
- c. Everyday, a Chef has to prepare **10 dishes** for **50 guests** lodging in a five star Hotel. He has to prepare **10 dishes** for breakfast, lunch and dinner. Each dish costs **\$500**. Provided all the guests eat all the **10 dishes 3 times** per day, how much money is the Hotel going to earn in **20 days**?
- d. For his daughter's birthday, Mr Davis ordered 9 boxes of cupcakes. Each box contains 12 mini boxes and there are 4 cupcakes in each mini box. How many cupcakes did Mr Davis order?
- e. During the school games, Rita bought 78 dozens disposable cups. If she bought each disposable cup for \$2, how much money did she use to buy all the cups?
- f. For the prince's wedding, the event planner had to adorn each table with 4 red roses, 8 white roses, and 10 golden roses. If there are 3 rows of tables and 45 tables per row in the reception hall, how many roses did the event planner use all together?
- g. In June, Mr James sold 55 apples. He also sold 18 times more tangerines than apples. Then, he sold 21 times more strawberries than tangerines. How many strawberries did he sell in all?
- h. Zoe is a little overweight but she still eats 9 cookies twice a day. If she continues with at this rate, how many cookies will she eat in 5 years?
- i. In order to perform very well in the next cycling race coming up in two years, Berry started cycling 6 miles per hour every day. How many miles will he cover for the two years altogether?

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a. It is Tracy's friend's Birthday party. To support her, Tracy's Mum has prepared **6 big trays of sandwich**. In each tray, there are **17 rows of sandwich**. If each row has **29 sandwiches**, how many sandwiches has Tracy's mother prepared?

- ▶ Number of trays: **6**
- ▶ Number of rows in each tray: **17**
- ▶ Number of sandwiches in each row: **29**

Tracy's Mum prepared **2,958** sandwiches.

Multiplication

$\begin{array}{r} 17 \\ \times 6 \\ \hline 102 \end{array}$	$\begin{array}{r} 102 \\ \times 29 \\ \hline 918 \\ + 2,040 \\ \hline 2,958 \end{array}$
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b. An office building has **17 floors**. Each floor has **16 rooms** and in each room there are **2 doors**. How many doors are there in **10** of such office buildings?

- ▶ Number of buidings: **10**
- ▶ Floors in each buiding: **17**
- ▶ Rooms in each building: **16**
- ▶ Doors in each room: **2**

Multiplication

$\begin{array}{r} 10 \\ \times 17 \\ \hline 170 \end{array}$	$\begin{array}{r} 170 \\ \times 16 \\ \hline 1,020 \\ + 1,700 \\ \hline 2,720 \end{array}$	$\begin{array}{r} 2,720 \\ \times 2 \\ \hline 5,440 \end{array}$
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There are **5,440** doors in **10** of such office buildings.

c. Everyday, a Chef has to prepare **10 dishes** for **50 guests** lodging in a five star Hotel. He has to prepare **10 dishes** for breakfast, lunch and dinner. Each dish costs **\$500**. Provided all the guests eats all the **10 dishes 3 times** per day, how much money is the Hotel going to earn in **20 days**?

- ▶ Cost of each dish: **\$ 500**
- ▶ Dishes he has to prepare: **10**
- ▶ Number of guests: **50**
- ▶ Each guest has to eat: **3 times**
- ▶ In 20 days, the Hotel will earn: **?**

Multiplication

$\begin{array}{r} 500 \\ \times 10 \\ \hline 5,000 \end{array}$	$\begin{array}{r} 5,000 \\ \times 50 \\ \hline 250,000 \end{array}$	$\begin{array}{r} 250,000 \\ \times 3 \\ \hline 750,000 \end{array}$	$\begin{array}{r} 750,000 \\ \times 20 \\ \hline 000,000 \\ + 15,000,000 \\ \hline 15,000,000 \end{array}$
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In 20 days, the Hotel will earn **\$15,000,000**.