

Name: ..... Class: .....

Divide numbers ending in zeroes by multi-digit numbers: word problems

1. Mr. Tomson owns a real estate company. He has \$ 310,000 to invest in some real estate properties. Each property costs \$ 90,000. How many of these properties will he be able to acquire?



2. A group of tourist needs to take a trip to the zoo using a 30-seater bus. If there are 170 tourist altogether, how many 30-seater buses will they need?



3. Petra works in a movie company. They need to buy new cameras for an up coming movie they intend to shoot. They have a budget of \$850,000 to buy new cameras. If each camera costs \$50,000, how many cameras will they be able to buy?

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Divide numbers ending in zeroes by multi-digit numbers: word problems

1. Mr. Tomson owns a real estate company. He has \$ 310,000 to invest in some real estate properties. Each property costs \$ 90,000. How many of these properties will he be able to acquire?

To solve this problem, let's divide 310,000 by 90,000.

$$310,000 \div 90,000$$

Since we have a zeroes in the divisor,

let's first of all get rid of them before using long division to solve the problem.

$$\frac{310,000}{90,000} = \frac{31}{9} = 9 \begin{array}{r} 3 \\ 31 \\ - 27 \\ \hline 4 \end{array}$$



Therefore, he will be able to get 3 properties with some money left since there is a remainder.

2. A group of tourist needs to take a trip to the zoo using a 30-seater bus. If there are 170 tourist altogether, how many 30-seater buses will they need?

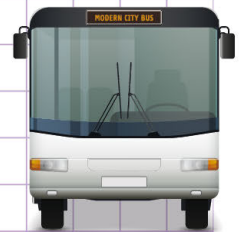
To find the number of buses they'll need, we need to divide 170 by 30.

$$170 \div 30$$

Since we have a zero in the divisor,

let's first of all get rid of it before using long division to solve the problem.

$$\frac{170}{30} = \frac{17}{3} = 3 \begin{array}{r} 5 \\ 17 \\ - 15 \\ \hline 2 \end{array}$$



They will need five 30-seater buses but since 3 people are left they will need an extra bus. So, six 30-seater buses will be needed to transport all the tourists.

3. Petra works in a movie company. They need to buy new cameras for an up coming movie they intend to shoot. They have a budget of \$850,000 to buy new cameras. If each camera costs \$50,000, how many cameras will they be able to buy?

To find the number of cameras they'll be able to buy, let's divide 850,000 by 50,000

$$850,000 \div 50,000$$

Since we have zeroes in the divisor,

let's first of all get rid of them before using long division to solve the problem

$$\frac{850,000}{50,000} = \frac{85}{5} = 5 \begin{array}{r} 17 \\ 85 \\ - 5 \\ \hline 35 \\ - 35 \\ \hline 0 \end{array}$$

So, they'll buy 17 cameras.