

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

Division with decimal quotients: word problems

- a. Pual has \$ 98.65. He wishes to divide this amount evenly between himself and five of his friends. How much to the nearest cent will each person get?



- b. Mr smith drove 199.5 miles on a work trip. He used about 8 gallons of gas. How many miles per gallon of gas did he cover on the trip. Round your answer to the nearest tenths



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- a. Pual has \$ 98.65. He wishes to divide this amount evenly between himself and five of his friends. How much to the nearest cent will each person get?

Divide \$ 98.65 by the number of persons  
there are 6 people in number  
So, \$  $98.65 \div 6 =$

$$\begin{array}{r} 16.441 \\ 6 \overline{) 98.650} \\ \underline{- 6} \phantom{0} \\ 38 \phantom{0} \\ \underline{- 36} \phantom{0} \\ 26 \phantom{0} \\ \underline{- 24} \phantom{0} \\ 25 \phantom{0} \\ \underline{- 24} \phantom{0} \\ 10 \phantom{0} \\ \underline{- 6} \phantom{0} \\ 4 \end{array}$$

← To round to the nearest cent, divide to thousandths

← Stop  
So, each person will get \$ 16.44



- b. Mr smith drove 199.5 miles on a work trip. He used about 8 gallons of gas. How many miles per gallon of gas did he cover on the trip. Round your answer to the nearest tenths

Divide 199.5 miles by 8 gallons of gas

$$\begin{array}{r} 24.93 \\ 8 \overline{) 199.50} \\ \underline{- 16} \phantom{0} \\ 39 \phantom{0} \\ \underline{- 32} \phantom{0} \\ 75 \phantom{0} \\ \underline{- 72} \phantom{0} \\ 30 \phantom{0} \\ \underline{- 24} \phantom{0} \\ 6 \end{array}$$

← To round to the nearest tenths, divide to hundredths

← Stop

So, he covered 24.9 miles per gallon of gas

