Unit Rates and Equations

To find missing information in situations that involve unit rates, create an algebraic equation that replaces the unknown quantity with a variable.

example: A pack of pens costs \$4.25. If Nolan spent \$29.75, how many packs, *p*, did he buy?

 $4.25p = \$29.75 \longrightarrow 4.25p = \$29.75 \longrightarrow p = 7$ $4.25p = 4.25 \xrightarrow{1}{1.25} \xrightarrow{1}{1.25$

At that unit rate, \$29.75 will buy 7 packs of pens.

Set up an equation to answer each question. Show your work.

- If an aquarium has 1,602 animals across 18 exhibits, what is the rate of animals, *a*, per exhibit?
- 2. If Rayna's Catering charges \$4,320 for a 60-person event, what does she charge, *c*, per person?

	Preview Please log in to download the printable version of this worksheet.
 answer: 5. If 36 peanuts contain 144 calories, how many calories, <i>c</i>, are in 1 peanut? 	 answer:
answer:	answer:

ANSWER KEY

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