

# Translating Words to Equations

<b>Read</b>	<b>Example 1</b> Jackie bought 4 bags of balloons. In total, she has 84 balloons. How many balloons are in each bag?	<b>Example 2</b> Erin bought 6 bags of beads. There were 9 beads in each bag. How many beads were there in all?
<b>Plan</b>	Write an equation to help you find the number of balloons per bag. $84 \div 4 = y$ (total) $\div$ (bags) = (balloons per bag)	Write an equation to help you find the number of beads in all. $6 \times 9 = a$ (bags) $\times$ (beads) = (beads in all)
<b>Solve</b>	$84 \div 4 = 21$ $y = 21$ There are 21 balloons in each bag.	$6 \times 9 = 54$ $a = 54$ There are 54 beads in all.
<b>Check</b>	Multiply 21 (balloons per bag) by 4 (number of bags). $21 \times 4 = 84$ There are 84 balloons in total, so I know my answer is correct.	Divide 54 (beads in all) by 6 (bags). $54 \div 6 = 9$ There are 9 beads per bag, so I know my answer is correct. OR Divide 54 (beads in all) by 9 (beads per bag). $54 \div 9 = 6$ There are 6 bags, so I know my answer is correct.

Solve.

1. In a parking lot, there are 6 cars per row. There are 42 cars in all. What operation do you need to use to find the number of rows?

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2. Luis has 6 bags of pears. There are 16 pears in each bag. Write an equation to find how many pears there are in all. Solve the equation.

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3. **Strategy Practice** Gina bought boxes of pens. Each box had 8 pens. There were 48 pens in all. Write an equation to find the number of boxes of pens. Then, solve the equation and show how to check your answer.

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