Name $\qquad$ Date $\qquad$
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## Multiplying Fractions by a Whole Number Word Problems <br> (4.NF.4)

Directions: Solve the following word problem using numbers, pictures (model drawings), and words.
At Robotics Camp, Christopher has to build a walking crocodile. The directions state that he needs to cut 16 separate $1 / 4 \mathrm{ft}$ lengths of wire. If he has 3 ft of wire at his table does he has enough wire?

Answer: $\qquad$
Answer:
$\qquad$ Date $\qquad$

I know Christopher has 3 ft of wire. He needs to cut $16,1 / 4$ lengths of wire. I need to multiply $16 \times 1 / 4.16 / 1 \times 1 / 4=16 / 4=4$ He needs 4 ft of wire for his project. $3<4$ So, he does not have enough wire. He needs 1 more ft of wire.

Shaded boxes represent what he has. The non-shaded boxes represent what he still needs.

| 1 | 3 | 4 |  |
| :--- | :--- | :--- | :--- |
| $1 / 4$ | $1 / 4$ | $1 / 4$ | $1 / 4$ |
| 5 | 6 | 7 | 8 |
| $1 / 4$ | $1 / 4$ | $1 / 4$ | $1 / 4$ |
| 9 | 10 | 11 | 12 |
| $1 / 4$ | $1 / 4$ | $1 / 4$ | $1 / 4$ |
| 13 | 14 | $1 / 4$ | 16 |
| $1 / 4$ | $1 / 4$ |  |  |

