## Lesson 14: Write and Solve Equations with Unknowns

* Let’s work with equations with unknown numbers.

### Warm-up: Number Talk: Fives

Find the value of each expression mentally.

* $1×5$
* $2×5$
* $3×5$
* $4×5$

### 14.1: Card Sort: Unknown Numbers

Your teacher will give you a set of cards. Match each equation with a situation or diagram.



### 14.2: Write Equations with an Unknown Number

* Write an equation to represent each diagram or situation. Use a symbol for the unknown. Be prepared to share your reasoning.
* Find the number that makes each equation true. Rewrite the equation with the solution.

| diagram or situation | equation with symbol | equation with solution |
| --- | --- | --- |
| Diagram. 2 parts. 1 part labeled 5 and other part blank. Total length, 35. |  |  |
| Jada has some packs of sports cards. Each pack has 5 cards. If Jada has 45 cards, how many packs of cards does she have? |  |  |
| Diagram. A rectangle split into 5 parts, each labeled 2. Total length, question mark. |  |  |
| Diagram. 2 parts. 1 part labeled 5 and other part blank. Total length, 30. |  |  |
| The school has 6 bags. Each bag has 10 basketballs in it. How many basketballs does the school have? |  |  |



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