

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

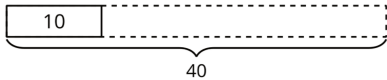
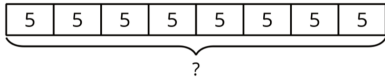
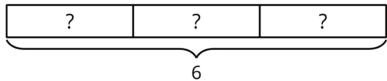
- 2×5

- 3×5

- 4×5

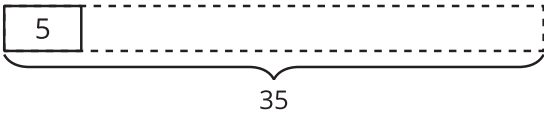
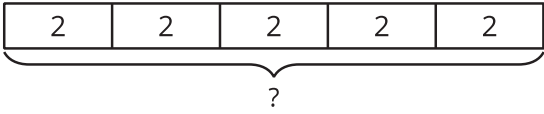
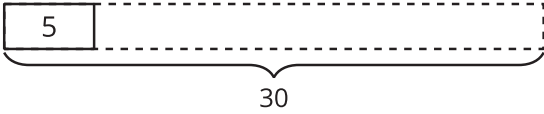
14.1: Card Sort: Unknown Numbers

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

<p>Card Sort: Unknown Numbers A</p> $3 \times \underline{\quad} = 6$	<p>Card Sort: Unknown Numbers B</p> 
<p>Card Sort: Unknown Numbers C</p> $8 \times 5 = ?$	<p>Card Sort: Unknown Numbers D</p> <p>There are 5 boxes of crayons. Each box has 10 crayons in it.</p>
<p>Card Sort: Unknown Numbers E</p> 	<p>Card Sort: Unknown Numbers F</p> $5 \times 10 = ?$
<p>Card Sort: Unknown Numbers G</p> <p>There are 8 boxes and each box has some blankets in it. There are 16 blankets altogether.</p>	<p>Card Sort: Unknown Numbers H</p> $? \times 10 = 40$
<p>Card Sort: Unknown Numbers I</p> $? \times 5 = 25$	<p>Card Sort: Unknown Numbers J</p> <p>Han has some bags of peaches. Each bag has 5 peaches in it. Han has 25 peaches.</p>
<p>Card Sort: Unknown Numbers K</p> $8 \times \underline{\quad} = 16$	<p>Card Sort: Unknown Numbers L</p> 

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
		
<p>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?</p>		
		
		
<p>The school has 6 bags. Each bag has 10 basketballs in it. How many basketballs does the school have?</p>		