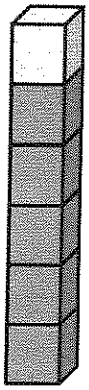
G3-M3-Lesson 2

1. Each  has a value of 8.

I know each block has a value of 8, so this tower shows 6 eights.



Unit form: 6 eights = 5 eights + 1 eight

= 40 + 8

= 48

The shaded and unshaded blocks show 6 eights broken into 5 eights and 1 eight. These two smaller facts will help me solve the larger fact.

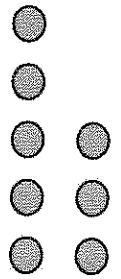
Facts: 6 × 8 = 48

8 × 6 = 48

Using commutativity, I can solve 2 multiplication facts, 6 × 8 and 8 × 6, which both equal 48.

2. There are 7 blades on each pinwheel. How many total blades are on 8 pinwheels? Use a fives fact to solve.

I need to find the value of 8 × 7, or 8 sevens. I can draw a picture. Each dot has a value of 7. I can use my familiar fives facts to break up 8 sevens as 5 sevens and 3 sevens.



5 *sevens*

$5 \times 7 = 35$

3 *sevens*

$3 \times 7 = 21$

$8 \times 7 = (5 \times 7) + (3 \times 7)$

$= 35 + 21$

$= 56$

This is how I write the larger fact as the sum of two smaller facts. I can add their products to find the answer to the larger fact. $8 \times 7 = 56$

There are 56 blades on 8 pinwheels.