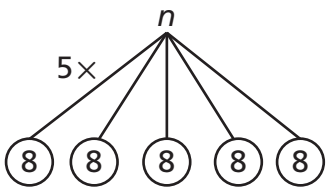
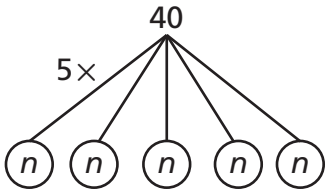
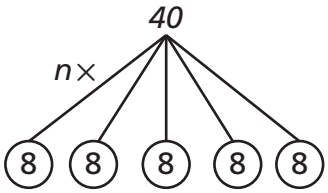
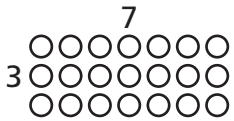
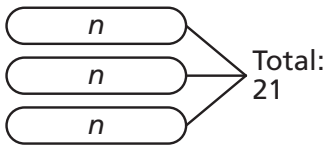
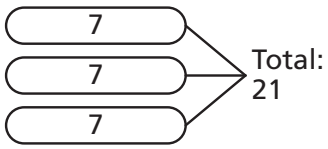
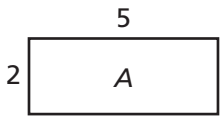
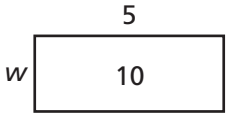
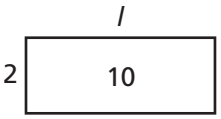
Multiplication and Division Problem Types

	Unknown Product	Group Size Unknown	Number of Groups Unknown
Equal Groups	A teacher bought 5 boxes of markers. There are 8 markers in each box. How many markers did the teacher buy? *Math drawing:*  *Situation and solution equation:* $n = 5 \cdot 8$	A teacher bought 5 boxes of markers. She bought 40 markers in all. How many markers are in each box? *Math drawing:*  *Situation equation:* $5 \cdot n = 40$ *Solution equation:* $n = 40 \div 5$	A teacher bought boxes of 8 markers. She bought 40 markers in all. How many boxes of markers did she buy? *Math drawing:*  *Situation equation* $n \cdot 8 = 40$ *Solution equation:* $n = 40 \div 8$

Problem Types (continued)

	Unknown Product	Unknown Factor	Unknown Factor
Arrays	For the yearbook photo, the drama club stood in 3 rows of 7 students. How many students were in the photo in all? *Math drawing:*  *Situation and solution equation:* $n = 3 \cdot 7$	For the yearbook photo, the 21 students in drama club, stood in 3 equal rows. How many students were in each row? *Math drawing:*  *Situation equation:* $3 \cdot n = 21$ *Solution equation:* $n = 21 \div 3$	For the yearbook photo, the 21 students in drama club, stood in rows of 7 students. How many rows were there? *Math drawing:*  *Situation equation* $n \cdot 7 = 21$ *Solution equation:* $n = 21 \div 7$
Area	The floor of the kitchen is 2 meters by 5 meters. What is the area of the floor? *Math drawing:*  *Situation and solution equation:* $A = 5 \cdot 2$	The floor of the kitchen is 5 meters long. The area of the floor is 10 square meters. What is the width of the floor? *Math drawing:*  *Situation equation:* $5 \cdot w = 10$ *Solution equation:* $w = 10 \div 5$	The floor of the kitchen is 2 meters wide. The area of the floor is 10 square meters. What is the length of the floor? *Math drawing:*  *Situation equation* $l \cdot 2 = 10$ *Solution equation:* $l = 10 \div 2$