

Mastery

Three children calculated 7×6 in different ways.
Identify each strategy and complete the calculations.

Annie

$$7 \times 6 = 7 \times 5 + \square$$
$$= \square$$

Bertie

$$7 \times 6 = 7 \times 7 - \square$$
$$= \square$$

Cara used the commutative law

$$7 \times 6 = \square \times \square$$
$$= \square$$

Now find the answer to 6×9 in three different ways.

Tom ate 9 grapes at the picnic. Sam ate 3 times as many grapes as Tom.
How many grapes did they eat altogether?

The bar model is a useful scaffold to develop fluency in this type of question.

Mastery with Greater Depth

Multiply a number by itself and then make one factor one more and the other one less. What happens to the product?

E.g.

$$4 \times 4 = 16$$

$$6 \times 6 = 36$$

$$5 \times 3 = 15$$

$$7 \times 5 = 35$$

What do you notice? Will this always happen?

Sally has 9 times as many football cards as Sam. Together they have 150 cards.
How many more cards does Sally have than Sam?

The bar model is a useful scaffold to develop fluency in this type of question.