

Lesson 16: Multiply Numbers Larger than 20

• Let's multiply numbers that are larger than 20.

Warm-up: Number Talk: Three Times Some Numbers

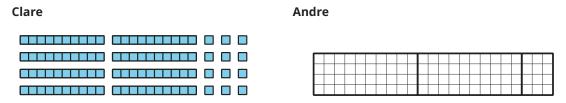
Find the value of each expression mentally.

- 3 × 10
- 3 × 20
- 3×50
- 3 × 25



16.1: 4×23 , Represented

1. Here is how Clare and Andre represented 4×23 .



a. How does each diagram show 4×23 ?

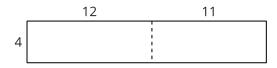
b. How could we use Clare's diagram to find the value of 4×23 ?

c. How could we use Andre's diagram to find the value of 4×23 ?



2. Diego tried different ways to partition or split a diagram to help him find the value of 4×23 .

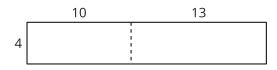
Α



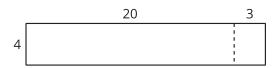
В



C



D



- a. What do you notice about the numbers in his diagrams?
- b. Which diagram would you use to find the value of 4×23 ? Explain your reasoning.
- 3. Find the value of 3×28 . Show your thinking using diagrams, symbols, or other representations.

Lesson 16



16.2: Some Fine Products

1. To find the value of 2×37 , Mai started by writing this equation:

$$2 \times 30 = 60$$

Describe or show what Mai would do to finish finding the value of 2×37 .

2. Find the value of each product. Show your reasoning.

a.
$$3 \times 32$$

b.
$$2 \times 43$$

c.
$$4 \times 22$$

$$d.3 \times 29$$

16.3: Play Close to 100, Multiplication

Play Close to 100, Multiplication with a partner.

- 1. Place the cards face down.
- 2. Each player draws 4 cards.
- 3. Each player chooses 2 cards to complete the expression to make a value as close to 100 as possible. Write the 2 digits and the product.
- 4. Player closest to 100 wins.
- 5. Play 5 rounds. Player who wins the most rounds wins.

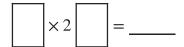
Game 1
Round 1
× 1 =
Round 2
× 1 =
Round 3
× 1 =
Round 4
× 1 =
Round 5
× 1 =

Lesson 16

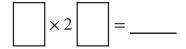


Game 2

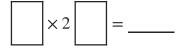
Round 1



Round 2



Round 3



Round 4



Round 5

