

Grade 3 Unit 4

Lesson 16

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Unit 4 Lesson 16: Multiply Numbers Larger than 20

WU Number Talk: Three Times Some Numbers (Warm up)

Student Task Statement

Find the value of each expression mentally.

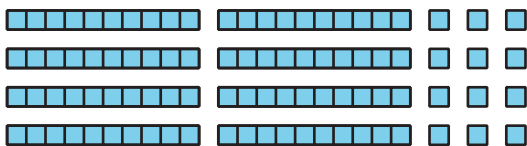
- 3×10
- 3×20
- 3×50
- 3×25

14×23 , Represented

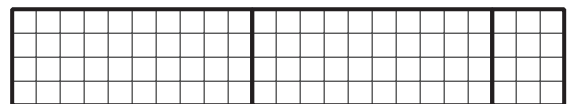
Student Task Statement

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

Clare

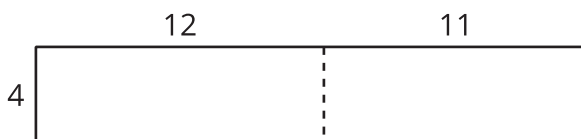


Andre

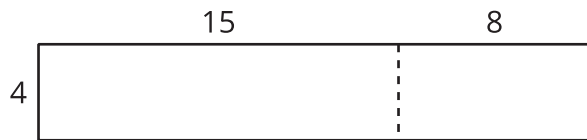


- How does each diagram show 4×23 ?
 - How could we use Clare's diagram to find the value of 4×23 ?
 - How could we use Andre's diagram to find the value of 4×23 ?
- Diego tried different ways to partition or split a diagram to help him find the value of 4×23 .

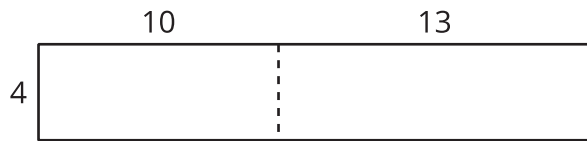
A



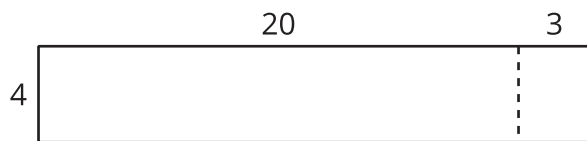
B



C



D



- What do you notice about the numbers in his diagrams?
 - 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.

2 Some Fine Products

Student Task Statement

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.
- 3×32
 - 2×43
 - 4×22
 - 3×29

3 Play Close to 100, Multiplication (Optional)

Student Task Statement

Play Close to 100, Multiplication with a partner.

- Place the cards face down.
-

-
- Each player draws 4 cards.
 - 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.
 - Player closest to 100 wins.
 - Play 5 rounds. Player who wins the most rounds wins.

Game 1

Round 1

$$\square \times 1 \square = \underline{\quad}$$

Round 2

$$\square \times 1 \square = \underline{\quad}$$

Round 3

$$\square \times 1 \square = \underline{\quad}$$

Round 4

$$\square \times 1 \square = \underline{\quad}$$

Round 5

$$\square \times 1 \square = \underline{\quad}$$

Game 2

Round 1

$$\square \times 2 \square = \underline{\quad}$$

Round 2

$$\square \times 2 \square = \underline{\quad}$$

Round 3

$$\square \times 2 \square = \underline{\quad}$$

Round 4

$$\square \times 2 \square = \underline{\quad}$$

Round 5

$$\square \times 2 \square = \underline{\quad}$$

