



Multiply Numbers Greater than 20

Let's multiply numbers that are greater 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

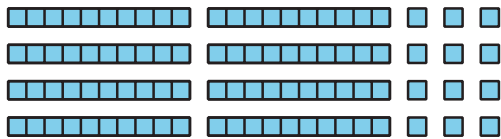


Activity 1

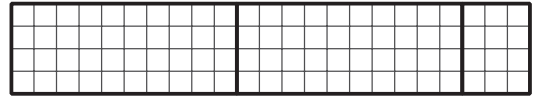
4×23 , Represented

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

Clare



Andre



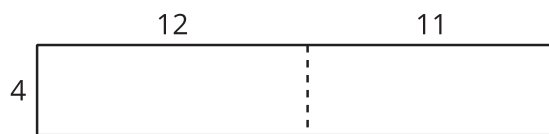
a. How does each representation show 4×23 ?

b. How could you use Clare's base-ten diagram to find the value of 4×23 ?

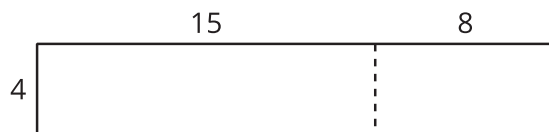
c. How could you use Andre's area diagram to find the value of 4×23 ?

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

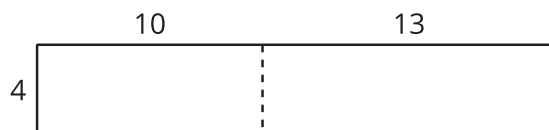
A



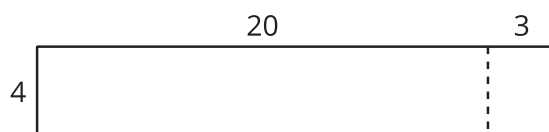
B



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.

Activity 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 could do to finish finding the value of 2×37 .

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

- a. 3×32

- b. 2×43

- c. 4×22



d. 3×29



Activity 3

Play Close to 100, Multiplication

Play Close to 100, Multiplication with a partner.

1. Place the cards facedown.
2. Each player draws 4 cards.
3. Each player chooses 2 cards to complete the factors in that round's equation. The goal is to make a product as close to 100 as possible. Each player writes their 2 factors and their product.
4. The player whose product is closest to 100 wins the round.
5. Play 5 rounds. The player who wins the most rounds wins the game.

Game 1

Round 1

$$\boxed{} \times 1 \boxed{} = \underline{}$$

Round 2

$$\boxed{} \times 1 \boxed{} = \underline{}$$

Round 3

$$\boxed{} \times 1 \boxed{} = \underline{}$$



Round 4

$$\square \times 1 \square = \underline{\hspace{2cm}}$$

Round 5

$$\square \times 1 \square = \underline{\hspace{2cm}}$$

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

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

