3.4(E)

represent multiplication facts by using a variety of approaches such as repeated addition, equal-sized groups, arrays, area models, equal jumps on a number line, and skip counting

INTERVENE

<1 min

Fluency Practice

What is 3 + 3 + 3 + 3 + 3 + 3 = ?

Is there a faster way to solve this (hint: x)

Represent this expression with a picture below:

2 min

Problem Solving Strategies

Step 1: Show what you know

- If there's a vocabulary word you know, write or draw something to show you know it.
- ex) perimeter (add all sides, goes around, etc)

Step 2: Solve and Check

- Add to check your subtraction, etc

Step 3: Eliminate and Justify

- Don't just cross answers out and pick your favorite choice.
- SHOW why a choice is wrong.

<3 min

Problem Solving Lesson

if you find an issue with fluency, go straight to the fluency sections of lesson

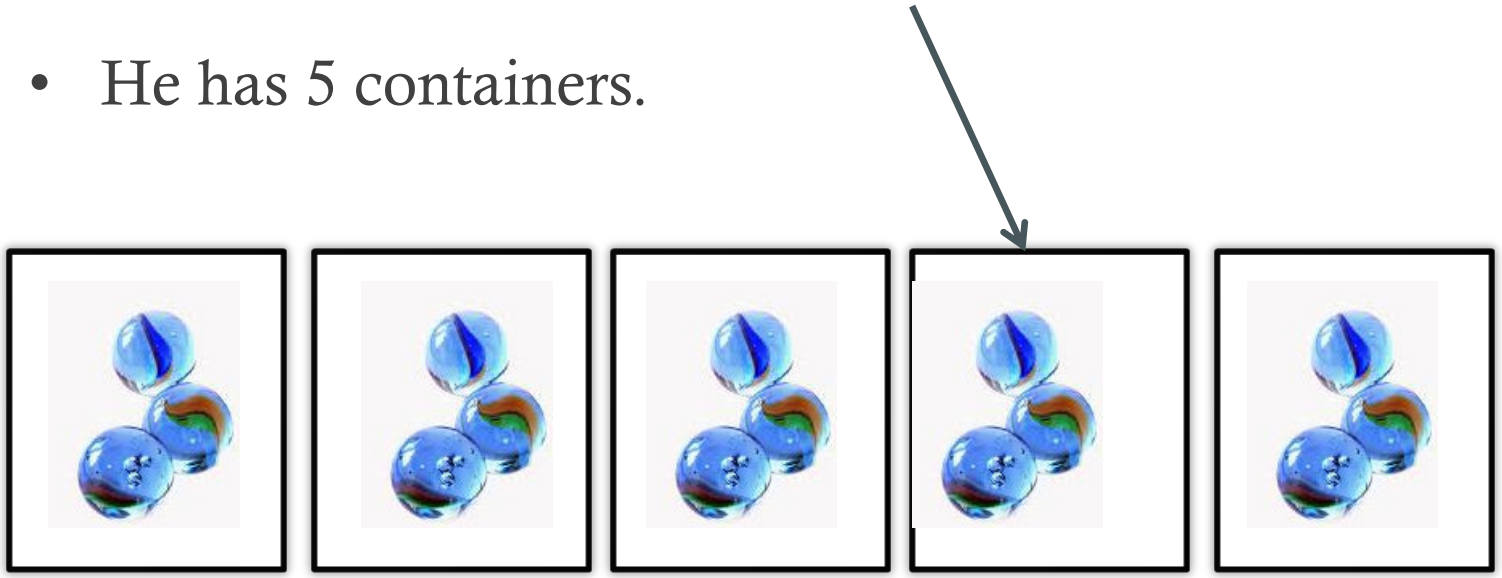
- Ask 2 questions to know which operation to choose:
  - Am I looking for a bigger number?
  - Are there groups?

	Getting Bigger (in all, total, combined)	**Getting Smaller (how many more, difference)**
Groups (each, an, every, per)	Multiply (x)	Divide (/)
No Groups	Add (+)	Subtract (-)

2 min

Groups

- Joe has 3 marbles in each container.
- He has 5 containers.



3 x 5 = 15

Skip Counting

Fill in the blanks

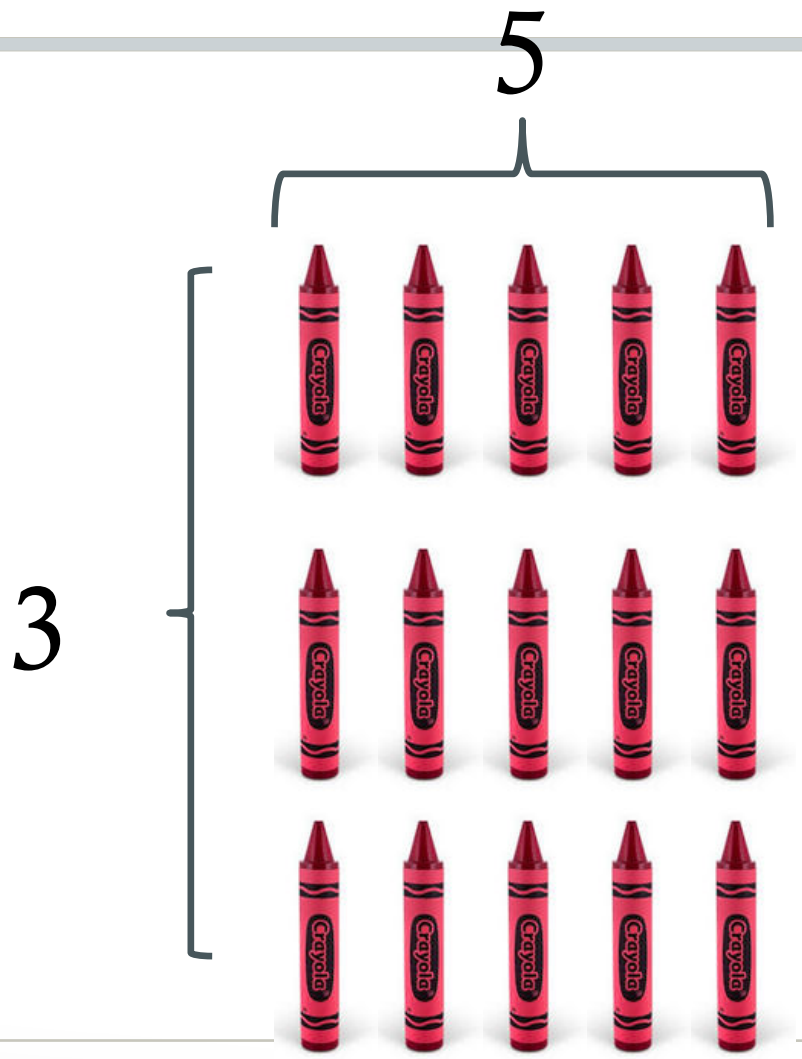
3 x 5 =

3, 6, ____, ____, ____

5 x 3 =

5, _____, _____

Arrays

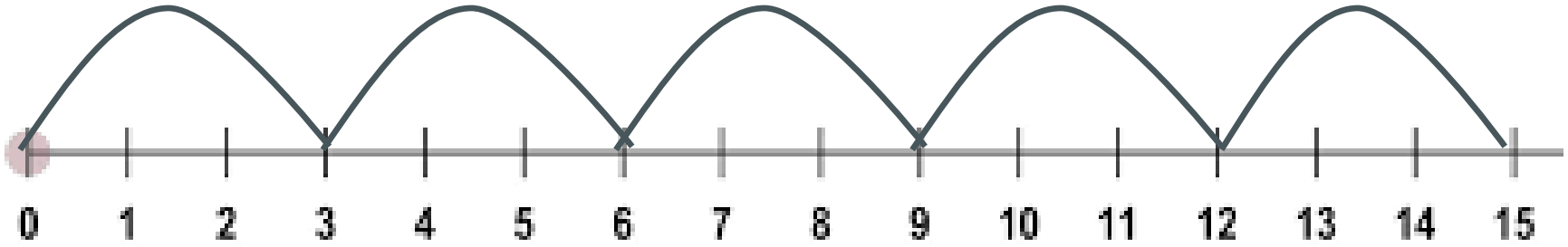


$5 \times 3 = 15$

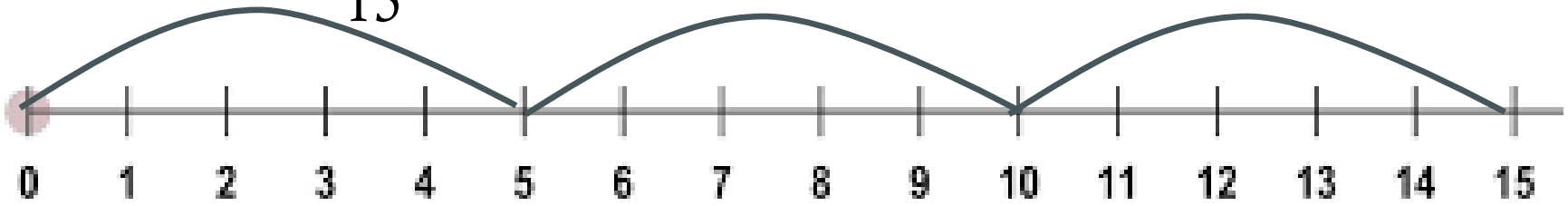
You can just rotate it to make 3 x 5

Number Lines

5 groups of 3 units each makes 5 x 3 = 15



3 groups of 5 units each makes 3 x 5 = 15

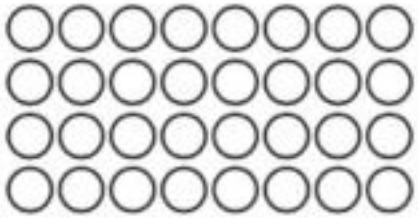


I Do

Zachary lists some different methods he thinks he can use to solve the multiplication problem shown.

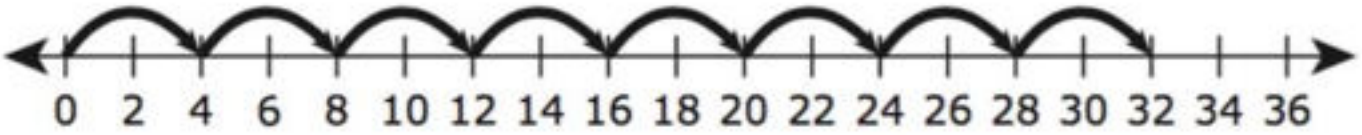
$$8 \times 4 = ?$$

Which of these is **not** a method Zachary can use to get the correct answer?

A 

B $8 \times 8 \times 8 \times 8$

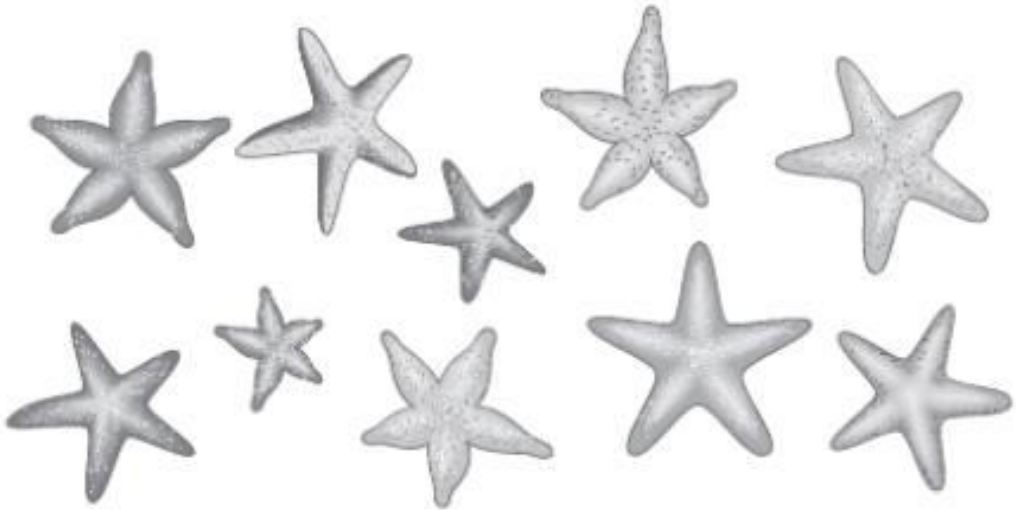
C 4, 8, 12, 16, 20, 24, 28, 32

D 

5 min

We Do – Student 1

Janie collected 10 sea stars at the beach. Each sea star had 5 arms, as shown below.



Which expression can be used to find the total number of arms on 10 sea stars?

A $10 \div 5$

B $10 - 5$

C $10 + 5$

D 10×5

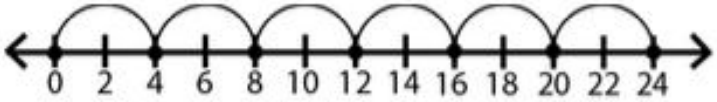
5 min

We do - Student 2

Estefany bought a bag of chips once every 6 days. If she bought 4 bags of chips, which of the following number lines best represents the days that she bought chips?

A. 

C. 

B. 

D. 

5 min

We do - Student 3

A house with 6 windows is shown below.

Which of the following expressions best represents the number of windows in 4 houses?

A. 6 x 4

B. 4 + 4 + 4 + 4 + 4

C. 6 + 4

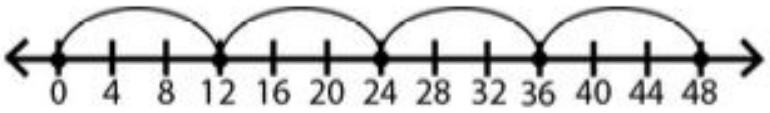
D. 6 + 6 + 6

5 min

We do – Student 4

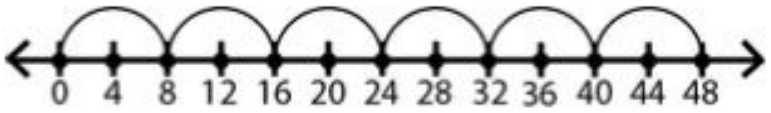
Jose played soccer for 4 hours each day. He played soccer for 12 days. Which number line best represents the total number of hours Jose played soccer?

A.

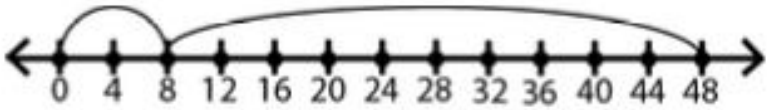


B.

C.



D.



5 min

We do –
Student 5

An array of staplers is shown below.

Which number sentence best represents the array?

A. $4 \times 6 = 28$

B. $4 \times 7 = 28$

C. $4 \times 8 = 32$

D. $4 + 7 = 28$

5 min

Debrief

- Ask 2 questions to know which operation to choose:
  - Am I looking for a bigger number?
  - Are there groups?

	Getting Bigger (in all, total, combined)	**Getting Smaller (how many more, difference)**
Groups (each, an, every, per)	Multiply (x)	Divide (/)
No Groups	Add (+)	Subtract (-)

2 min

You Do

Go back to Intervene for your quiz!