Unit 7 Module 1 Session 5

Problems and Operations-Multiplying Single Digits by Multiples of Ten

Getting Ready-

- A red and blue fine-tipped marker
- Red and blue colored pencils for each student
- Student journals
- SB 229 Explore six
- SB 230 Explore more

- Multiply whole numbers from 1-9 by multiples of 10 from 10-90 using strategies based on place value
- Label the dimensions and area of a rectangle on a grid

Vocabulary

Digit

Equation

Multiple

Multiply

Pattern

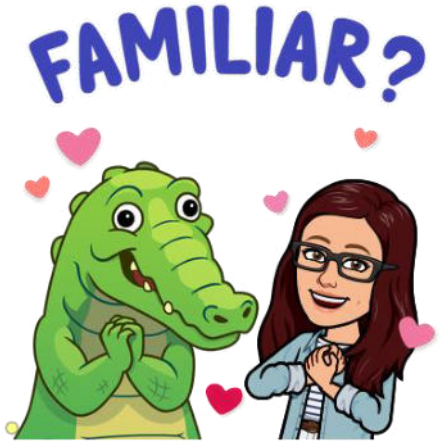
Two-step story problem

Unknown quantity

Value

3 Elisa collects seashells. She keeps them in a special box with 9 compartments. Each compartment holds 7 shells. She has already filled 6 of the compartments. How many shells will the box still hold?

$(9 + 7) \times 6 = s$	$(9 \times 7) - (6 \times 7) = s$	$(6 \times 7) + s = (9 \times 7)$



We looked at problems like this in session 3. Do you remember how we solved them?

Let's solve them in our journals

Open Workbooks to page 229 and follow along

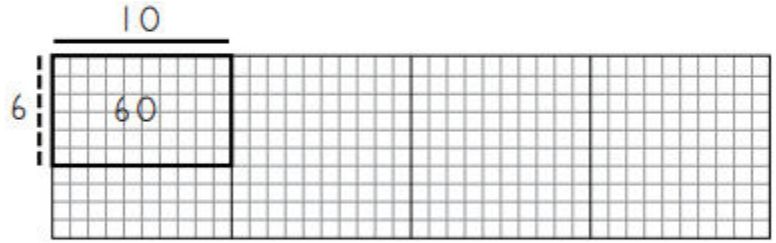
NAME | DATE

SB 229

Explore Six

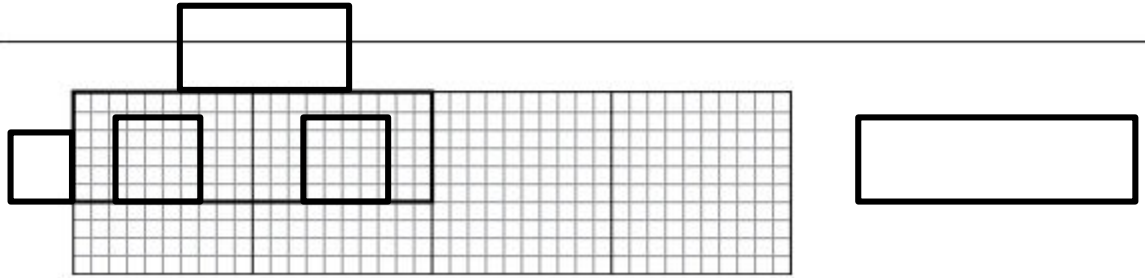
1 Label the dimensions and area of the rectangle on each grid. Write a multiplication equation to match.

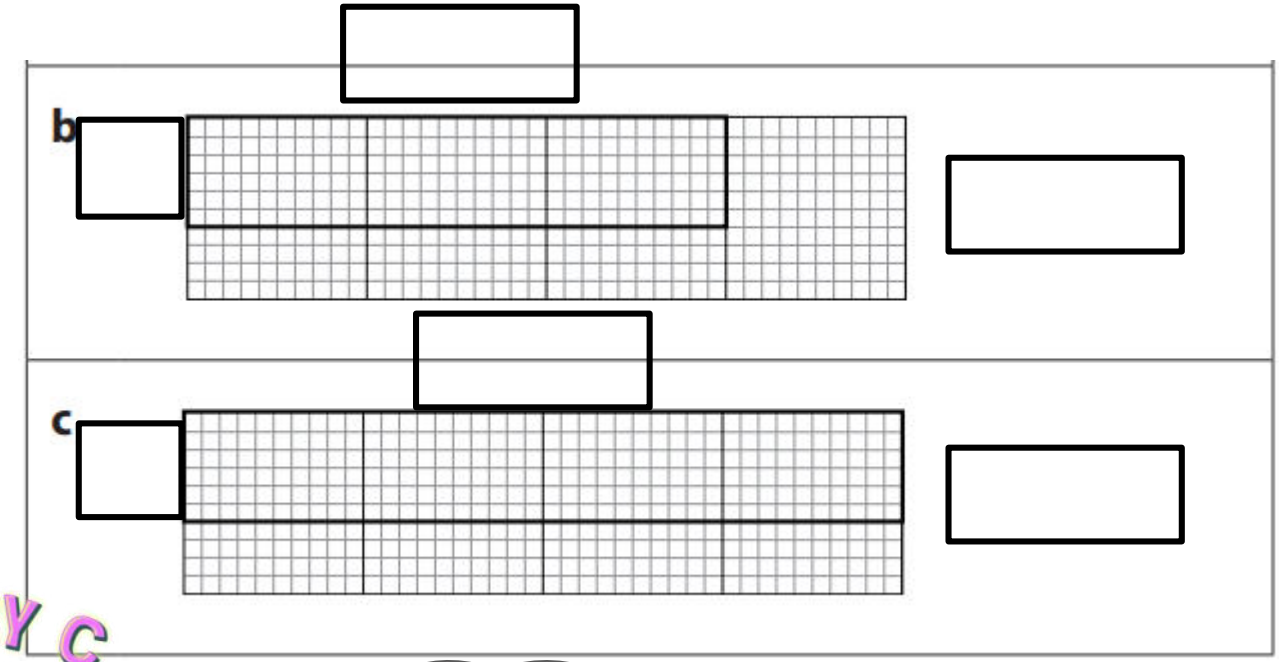
ex



$6 \times 10 = 60$

a

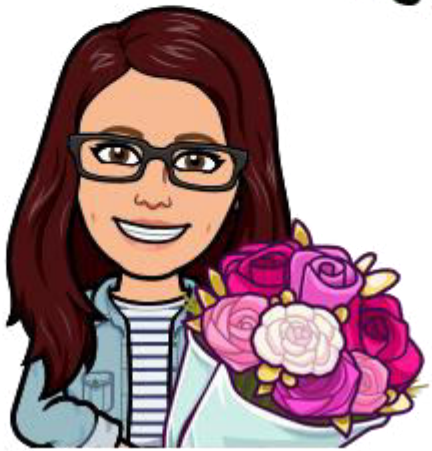




YOU TRY C

And number 2

DID YOU SEE A PATTERN?



- What do you notice about these pairs of combinations?

- Why does this pattern work the way it does?

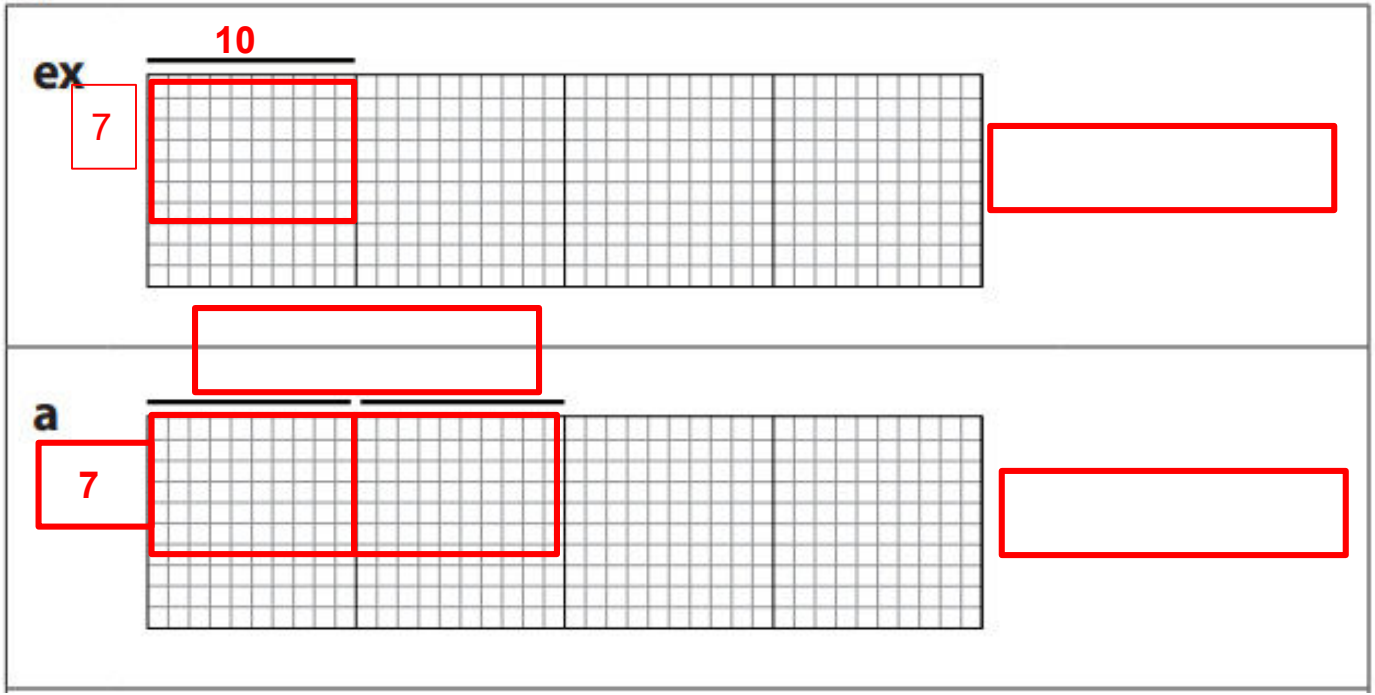
- What happens to the value of each of the digits in the basic fact products when 6 is multiplied by a multiple of 10? Why?

- Would this pattern work with a different single-digit number? Why or why not?

SB 230

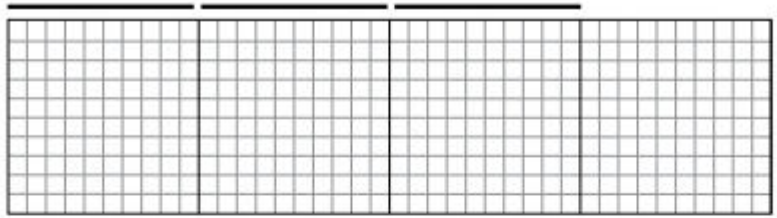
Explore More

1 Choose a number between 4 and 9 (not 6) to multiply by 10 and multiples of 10. Draw the missing dimensions and the area of each rectangle. Write a multiplication equation to match.



Try the rest on your own

b



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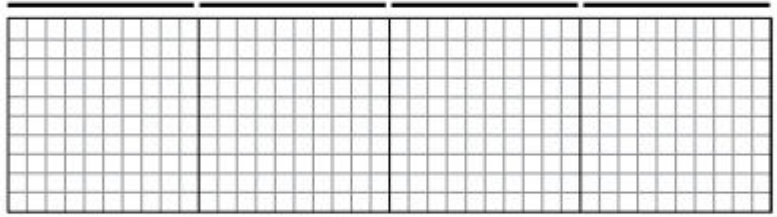

2 Complete these equations using the number you chose.

$\square \times 50 = \square$ $\square \times 60 = \square$ $\square \times 70 = \square$

$\square \times 80 = \square$ $\square \times 90 = \square$ $\square \times 100 = \square$

Work Places

5C Line 'Em Up

5D Division Capture

6A Tangram Polygons

6B Geoboard Polygons

6C Guess My Quadrilateral

6D Area or Perimeter

Daily Practice

SB 231 Multiplying by Multiples of Ten