End-of-Module 1 Review

1. Aanya works at a bracelet shop. She sells all different types of bracelets! She sells <u>16</u> bracelets in a case. <u>4 rows fit in a case</u>. Draw an array to show the total number of bracelets in a case.

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a. Fill in the missing factor. Write a sentence telling what it represents.

b. Write a related division sentence to find the number of bracelets in each row.

16:4=4

- 2. Aanya packs the 16 bracelets into boxes of 8.
 - a. Draw a picture to show how many bracelet boxes Aanya packs. How many boxes of bracelets does she pack? <u>Don't forget to write your sentence.</u>

iii liii 16:8=2 Aanya packs 2 boxes of bracelets

b. Aanya sells <u>16 necklaces</u> and packs them into <u>boxes of of 2</u>. Draw a picture to show how many necklace boxes Aanya packs. Don't forget to write your sentence.

ny necklace boxes Aanya packs. Don't forget to write your sentence.

A anya packs 8 boxes of bracelets. Draw an array to represent the amount of bracelets Aanya sells. Draw a second array to represent the amount of necklaces Aanya sells. Explain the relationship between the 2 arrays using number sentences and words.

Earring Array brace kts	00000000 0000000000	Necklace Array
Explain: The	armys have the	Same total. 16. They have

the same factors (2 and 8). The factors just switch places. It's the commutative property.

3. Aimie likes cupcakes! For her birthday party, she decides to get 14 chocolate cupcakes (shown in o's) and 14 vanilla cupcakes (shown with x's). Shown below.

$$\frac{4 \times 7 = 28}{\times \times \times \times \times \times \times}$$
 0000000 $(2 \times 7) = 14$ 14 $(2 \times 7) = 14$ (2×7)

a. Fill in the unknowns in the equation below to match the picture of the cupcakes above. Use the break apart and distribute strategy to find the total number of cupcakes Aimie has for her birthday party.

$$\frac{4}{x}$$
 x 7= $(\frac{2}{x}$ x 7) + $(\frac{2}{x}$ x 7)

Aimie has $\frac{28}{x}$ cupcakes.

b. Evan decides to bring Aimie **two** more rows of 7 **vanilla cupcakes** to the party.... Shown below. Fill in the unknowns in the equation below to match the new picture. Solve to find the total number of cupcakes.

$$\frac{6 \times 7 = (2 \times 7) + (4 \times 7)}{00000000}$$

$$\frac{00000000}{00000000}$$

$$\frac{14}{28}$$

$$\frac{128}{42}$$

$$\frac{14}{28}$$

$$\frac{14}{28}$$

$$\frac{1}{4}$$

$$\frac{1}{4$$

There are 42 cupcakes altogether.

- 4. Mark decides to make his favorite lunch, grilled cheese! His recipe calls for 3 slices of cheese per one sandwich. He makes 6 sandwiches for the family on Friday.
 - a. How many cheese slices does Mark use to make the 6 sandwiches? **Draw a picture** and write a multiplication sentence to find the total number of cheese slices he uses for 6 grilled cheese sandwiches for Friday.

method correct? Why or why not?

No this method is incorrect. Division always starts

No this method is incorrect. Division always starts

with the total. Since we do not know the number of these slices all together it is a multiplication problem.

c. If he has a total of **32** cheese slices, how many are left after he makes the 6 grilled cheese

Mark will have Zslices left over. Over

d. Mark decides to make 5 more grilled cheese sandwiches on Saturday. What is the **total** number of cheese slices Mark used on both days? Draw a picture and write a number sentence to show how many cheese slices Mark used.

5. Complete as many problems as you can in 100 seconds. Stop after 100 seconds. Good luck!

Mark used 33 Slices of cheese

				311003
3 x 1 = 3	4 ÷ 1= 4	2 x <u>5</u> = 10	2 x 4 = 8	12 : 3 =
6 ÷ 2 = 3	4 x 3 = 12	20 ÷ 5 = 4	10 x 4 = 40	1 x <u>12</u> = 12
4 x 4 = 16	3 x 3 = 0	5 x <u>3</u> = 15	15 ÷ 3 = 5	10 x 2 = 20
8 x 1 = 0	8 ÷ 4 = 2	12 ÷ 4 = 3	5 x 4 = 20	4x6= 24
16 ÷ 8 = 2	14 ÷ 7 = 2	7x2= 14	18 ÷ 6 = 2	3 x 5 = 15
10 x 7 = 70	10 x <u>4</u> = 90	14 ÷ 2 = 7	3 x <u>8</u> = 24	60 ÷ 10 = 6
32 ÷ 4 = 8	10 x <u> </u>	30 ÷ 10 = 3	5×9= 45	5 x <u>(</u> = 30
2 x 9 = 18	3 x <u>7</u> = 21	5 x 10 = 50	2x6= 12	14 ÷ 1 = 14
4×7= 28	3x7=2\	21 ÷ 7 = 3	₂₀ ÷ _{4 = 5}	20 ÷ 2 = 10