REVIEW: Equal Groups and Multiplication

Name _____

Key Concept and Vocabulary

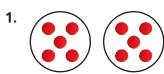$$4 + 4 + 4 = 12$$

factors · product

$$3 \times 4 = 12 \longleftarrow \text{total}$$

number of equal groups · size of equal groups

multiplication symbol

Multiplication is repeated addition.

Visual Model

4	4	4

12

3 groups of 4 is 12.

Skill Examples

1.

2 groups of 5
$5 + 5 = 10$
$2 \times 5 = 10$

2.

8	8	8	8	8	8

48

6 groups of 8
$8 + 8 + 8 + 8 + 8 + 8 = 48$
$6 \times 8 = 48$

Application Example

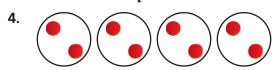**3.** You have 4 boxes. There are 7 stuffed animals in each box. How many stuffed animals are there in all?
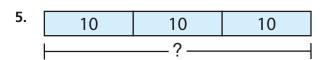
$$7 + 7 + 7 + 7 = 28$$
$$4 \times 7 = 28$$

⋮ There are 28 stuffed animals.

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Check your answers at BigIdeasMath.com.

Use the model to complete the statements.

4.

<u> 4 </u> groups of <u> 2 </u>
<u> 2 </u> + <u> 2 </u> + <u> 2 </u> + <u> 2 </u> = <u> 8 </u>
<u> 4 </u> × <u> 2 </u> = <u> 8 </u>

5.

10	10	10

?

<u> 3 </u> groups of <u> 10 </u>
<u> 10 </u> + <u> 10 </u> + <u> 10 </u> = <u> 30 </u>
<u> 3 </u> × <u> 10 </u> = <u> 30 </u>

Write the addition equation as a multiplication equation.

6. $5 + 5 + 5 + 5 + 5 + 5 + 5 = 35$ <u>$7 \times 5 = 35$</u>

7. $4 + 4 + 4 + 4 + 4 + 4 = 24$ <u>$6 \times 4 = 24$</u>

8. MARKERS You buy 5 packs of 8 markers each. How many markers do you buy in all? <u>40 markers</u>

9. CARTWHEELS You do 3 sets of 6 cartwheels each. Your friend does 2 sets of 9 cartwheels each. How many cartwheels do you and your friend do in all? Explain. <u>36 cartwheels; You do</u>

<u>$3 \times 6 = 18$ cartwheels, and your friend does $2 \times 9 = 18$ cartwheels. $18 + 18 = 36$</u>