



## Math 3

### 1-8a Skip Counting to Multiply Units of 4

Name:

Date:

#### [CCSS.MATH.CONTENT.3.OA.A.1](#)

Interpret products of whole numbers, e.g., interpret  $5 \times 7$  as the total number of objects in 5 groups of 7 objects each. *For example, describe a context in which a total number of objects can be expressed as  $5 \times 7$ .*

#### **Common Core Standards**

#### [CCSS.MATH.CONTENT.3.OA.A.3](#)

Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem.

#### CCSS.MATH.CONTENT.3.OA.A.4

Determine the unknown whole number in a multiplication or division equation relating three whole numbers. *For example, determine the unknown number that makes the equation true in each of the equations  $8 \times ? = 48$ ,  $5 = \_ \div 3$ ,  $6 \times 6 = ?$ .*

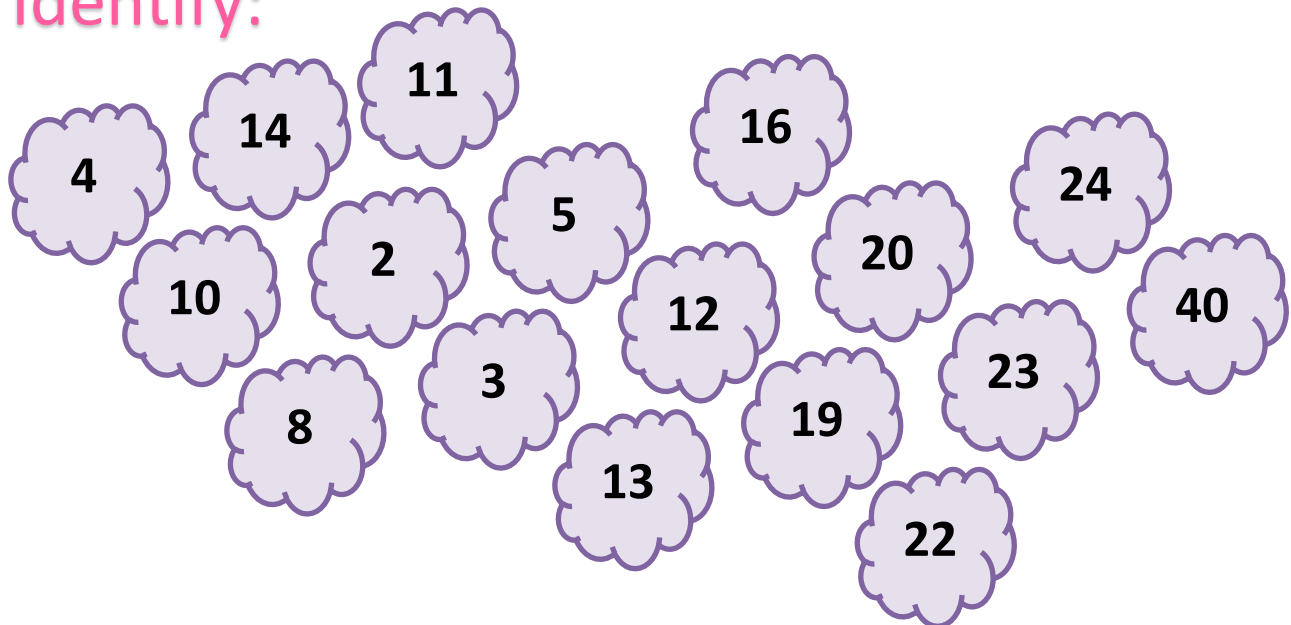
#### CCSS.MATH.CONTENT.3.OA.B.5

Apply properties of operations as strategies to multiply and divide. *Examples: If  $6 \times 4 = 24$  is known, then  $4 \times 6 = 24$  is also known. (Commutative property of multiplication.)  $3 \times 5 \times 2$  can be found by  $3 \times 5 = 15$ , then  $15 \times 2 = 30$ , or by  $5 \times 2 = 10$ , then  $3 \times 10 = 30$ . (Associative property of multiplication.) Knowing that  $8 \times 5 = 40$  and  $8 \times 2 = 16$ , one can find  $8 \times 7$  as  $8 \times (5 + 2) = (8 \times 5) + (8 \times 2) = 40 + 16 = 56$ . (Distributive property.)*

# 1-8a Skip Counting to Multiply Units of 4

## Skip Counting

Identify:



What are the numbers that have 4 as a factor?

Answer: 4, 8, 12, 16, 20, 24, 40

What do you multiply to 4 to get the biggest number on the list?

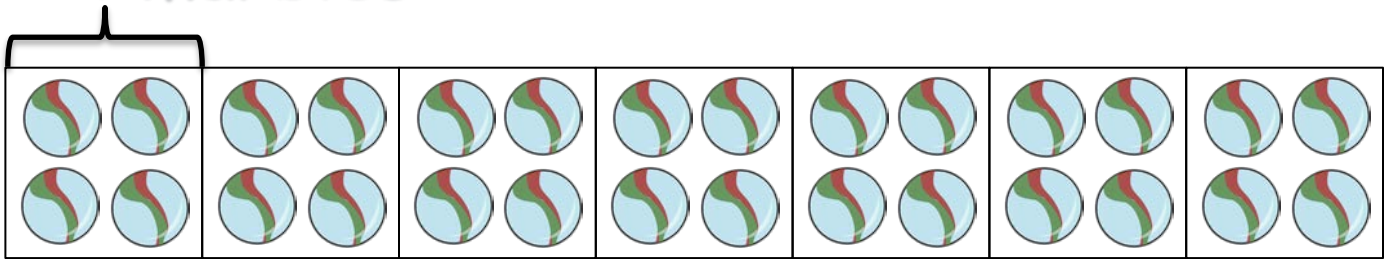
Answer: 10 because  $4 \times 10 = 40$

## Skip Counting

**Situation:**

Gabby has 7 packs of 4 marbles.

4 marbles



Write a repeated addition expression to represent the tape diagram:



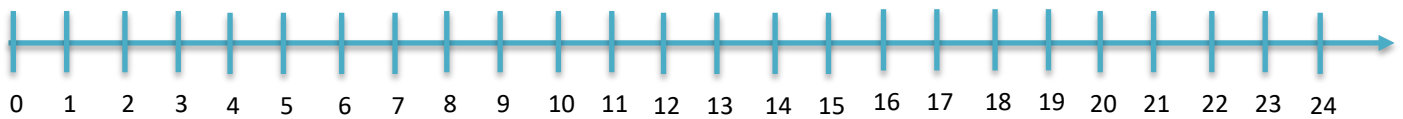
Write its equivalent multiplication expression:

     X     

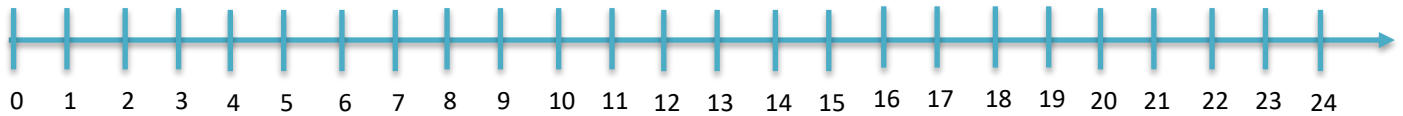
How many marbles are there?

Part A: Skip count by 4 using the number line to get the product.

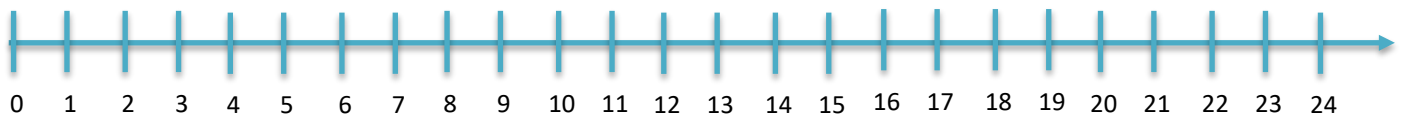
1.  $4 \times 3 =$



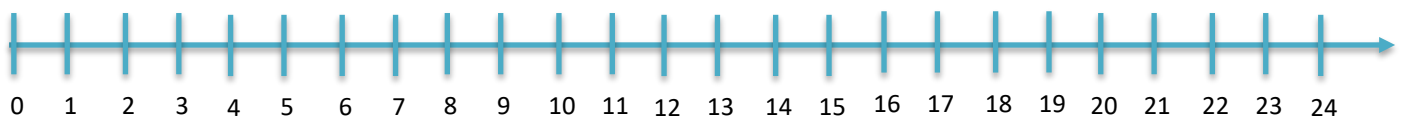
2.  $4 \times 2 =$



3.  $4 \times 4 =$



4.  $4 \times 6 =$



Part B: Find the unknown and complete the pattern by counting by 4.

1.  $4 \times \_ = 36$

20	24	28		36
----	----	----	--	----

2.  $4 \times \_ = 20$

4			16	20
---	--	--	----	----

3.  $4 \times \_ = 28$

12		20		28
----	--	----	--	----

4.  $4 \times \_ = 32$

16	20			32
----	----	--	--	----

5.  $4 \times \_ = 24$

		16	20	24
--	--	----	----	----

## Part C: What Does It Say?

Match the letter to its corresponding product and find out the hidden phrase.

<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
4	16	28	36	12
<hr/>	<hr/>	<hr/>		
24	20	8		

A.  $4 \times 9$

B.  $4 \times 6$

D.  $4 \times 1$

E.  $4 \times 7$

G.  $4 \times 2$

I.  $4 \times 5$

M.  $4 \times 3$

R.  $4 \times 4$

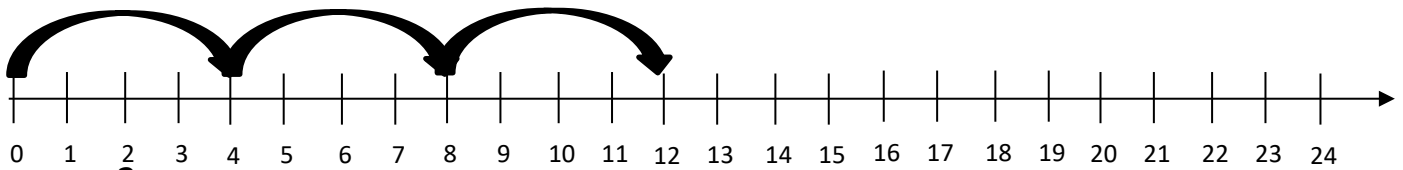
## ANSWER KEY

**Situation**      $4 + 4 + 4 + 4 + 4 + 4 + 4$   
                   $4 \times 7$   
                  28 marbles

**Part A:**

1.

= 12



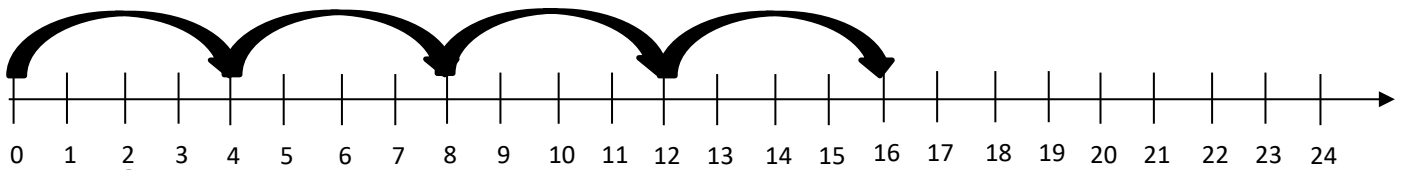
2.

= 8



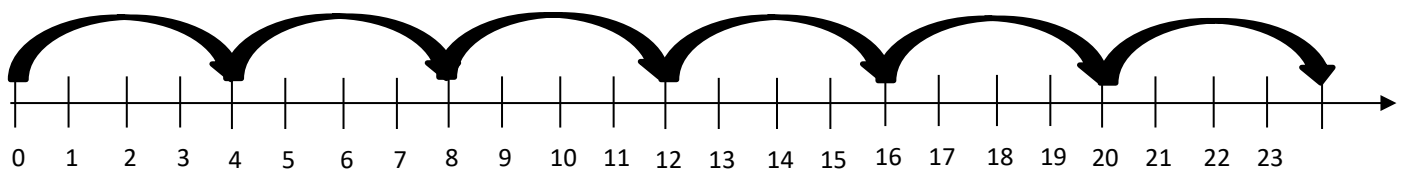
3.

= 16



4.

= 24





**Part B:**

- 1. x 9            20 | 24 | 28 | 32 | 36
- 2. x 5            4 | 8 | 12 | 16 | 20
- 3. x 7            12 | 16 | 20 | 24 | 28
- 4. x 8            16 | 20 | 24 | 28 | 32
- 5. x 6            8 | 12 | 16 | 20 | 24

**Part C:**

D   R   E   A   M  
4   16   28   36   12  
B   I   G  
24   20   8