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Math 3

1-10 Problem Solving Using Units of 2-5, and 10

Name:		Date:	

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.C.7 Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division (e.g., knowing that 8 × 5

= 40, one knows 40 ÷ 5 = 8) or properties of operations. By the end of Grade 3, know from memory all products of two one-digit numbers.

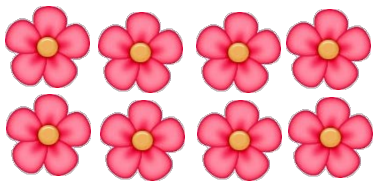
1-10 Problem Solving Using Units of 2-5, and 10

Problem Solving

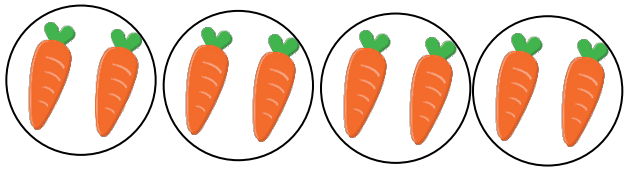
Identify:

What you call to the following strategies:

A



B



C

A: Array Model

B: Equal Groups Strategy

C: Tape Diagram

Problem Solving

Situation:

Roger has 20 pebbles. He places them equally into 10 jars.

Complete the multiplication equation:

$$\_ \times ? = \_$$

Complete the division equation:

$$\_ \div \_ = ?$$

How many pebbles are in each jar?

Part A: Answer the following word problems using array models.

1. Archie puts 8 apples each in 3 rows. How many apples does he have? (N)

2. Loraine has 30 sandwiches. She gives equally to 6 of her friends. How many does each receive? (J)

3. Manny stacked 7 cubes each into 5 levels. How many cubes did he stack all in all? (O)

Part B: Answer the following word problems using equal groups.

1. Marian has 18 peanuts. She groups them into 9 containers. How many does each container have? (I)

2. Melissa wants to put 3 chocolate chips each on 9 cookies she will bake. How many chocolate chips does she need? (Z)

3. Dennis divides 36 oranges into 4 baskets. How many oranges are in one basket? (G)

Part C: Answer the following word problems using tape diagrams.

1. Levi drew a square with its side having a length of 5 cm. What is the total length of all sides? (M)

2. Patty cooks 5 burgers in one hour. How many will she cook in 5 hours? (B)

3. Betty put 10 candies in 1 bag. She has 5 bags. How many candies are there? (A)

Part D: Decode the Message!

All the answers to the word problems have a corresponding letter. Use the answers to find out what the code means:

50-20-50-27-2-24-9

5-35-25!

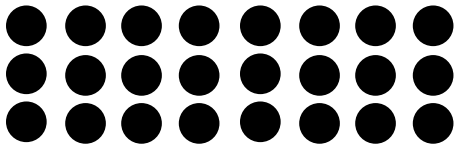
ANSWER KEY

Situation **10 x ? = 20**
20 ÷ 10 = ?
2 pebbles

Part A:

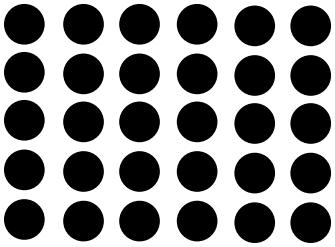
1.

= 24 apples



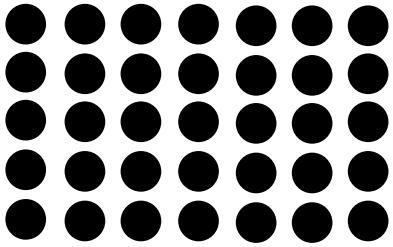
2.

= 5 sandwiches



3.

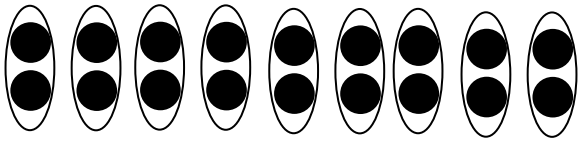
= 30 cubes



Part B:

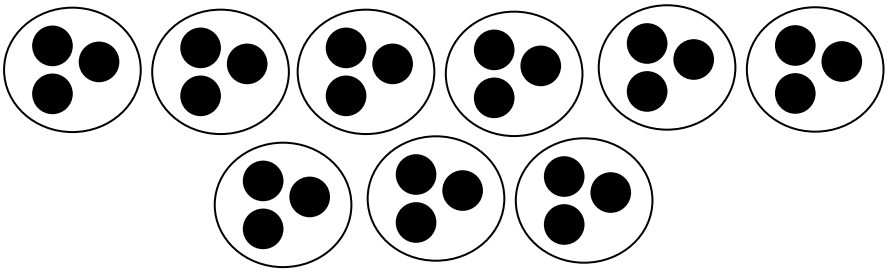
1.

= 2 peanuts



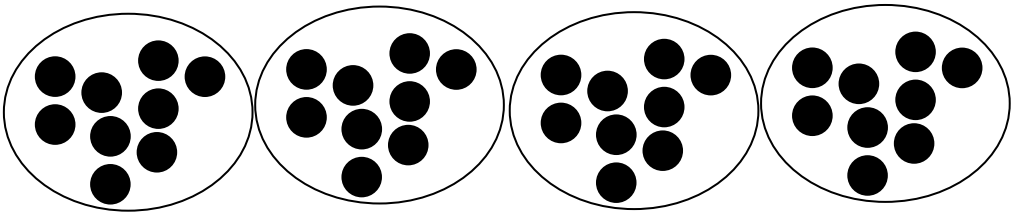
2.

= 27 chocolate chips



3.

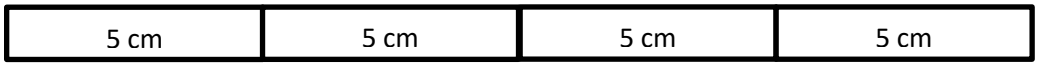
= 9 oranges



Part C:

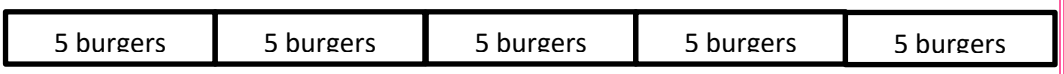
1.

= 20 cm



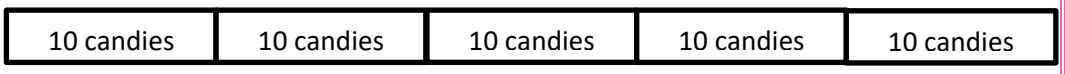
2.

= 25 burgers



3.

= 50 candies



Part D: **AMAZING JOB!**