LEPANTO MATHEMATICS

LEVEL 3 WORKBOOK

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Numbers, Groups, & Place Values

Exercise 1a: Numbers - 10 and under



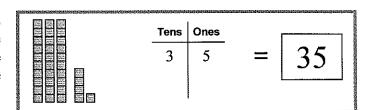
Bowling, or Ten Pins as it was called in earlier days, is an excellent way to learn to add and subtract numbers.

1. If Martin rolls a ball and knocks over six pins; then rolls a second ball and knocks down 2 more pins, his score for the two balls would be 6 plus 2. Martin says his total would equal 8.

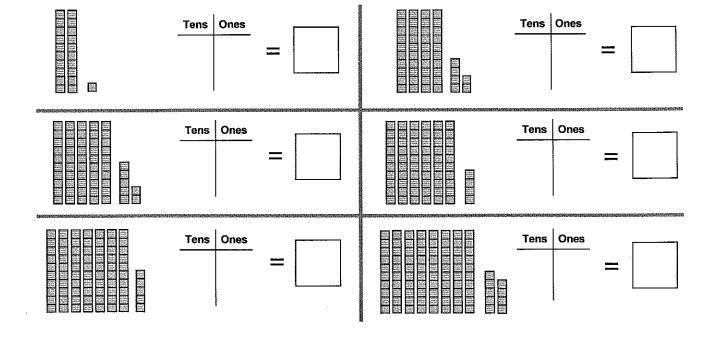
Is he correct?

2. These problems show other possible combinations that Martin could have scored with his 2 rolls. Write the total for each of these.

3. All 2-digit whole numbers have a tens place and a ones place. Count the groups of tens and ones, (see example to the right) and write the number in the square provided.



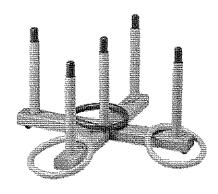
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CHAPTER 1: REVIEW

Exercise 1b: Word Problems & Adding Zero

Tina and Elizabeth are playing a Ring Toss Game with Robert and Steven, and they are keeping score of the points they receive for each of the rings they toss.



1. Tina tosses her first two rings. Her first ring scores 5 points, and the other also scores 5 points.

What is her score?

2. Elizabeth tosses her first two rings, one scores 7 points, and the other misses and scores 0 points.

What is her score?

3. Robert tosses his first two rings. His first ring scores 10 points, and the other one scores 6 points.

What is his score?

4. Steven tosses his first two rings, one scores 10 points, and the other one only scores 4 points.

What is his score?

5. Below are some of the scores that Tina and Elizabeth received on tosses as they continued their game of Ring Toss. Can you add each score?

10

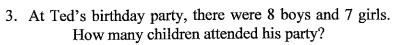
Exercise 1c: Word Problems & Adding Cents

1. Michael has 4 gold fish and 3 black fish in his aquarium. How many total fish does he have?



2. Martha is raising chicks. One hen hatches 11 eggs, and the other hen hatches 8 eggs. How many chicks does Martha have now?

CHAPTER 1: REVIEW





4. Maria has 12 cents in her pocket. Her mother giver her another 10 cents after doing her chores very well. How many cents does she have now?



5. Thomas has 15 Civil War toy soldiers. His father gives him 12 more for is birthday. How many toys soldiers does he have now?



6. Cindy spends 4 cents for milk and 15 cents for cookies each day at morning break. How much does she spend for the milk and cookies?



7. Mark bought a toy airplane for 15 cents and a candy bar for 10 cents. How much money did Mark spend?

8. Linda is playing jacks. She picks up 6 on her first turn, and 9 on her second turn. How many jacks did she pick up in both turns?



9. Roger bought 2 pencils for 10 cents each. How much money did he have to spend to get the pencils?

10. Susan earned 25 cents yesterday. Today she did not earn any money. How much money did she earn for both days?

11. Write these grouped numbers as whole numbers.

$$\frac{\mathsf{T} \mid \mathsf{o}}{1 \mid 2} = \boxed{}$$

$$\begin{array}{c|c} \hline 1 & 0 \\ \hline 2 & 4 \end{array} = \boxed{}$$

$$\frac{\mathsf{r} \mid \mathsf{o}}{3 \mid 6} = \boxed{}$$

$$\frac{\mathsf{r} \mid \mathsf{o}}{1 \mid 1} = \boxed{}$$

$$\frac{\mathsf{r} \mid \mathsf{o}}{0 \mid 1} = \boxed{}$$

$$\frac{\mathsf{r} \mid \mathsf{o}}{1 \mid \mathsf{0}} = \boxed{}$$

$$\frac{\mathsf{T} \mid \mathsf{o}}{3 \mid 2} = \boxed{}$$

$$\frac{\mathsf{r} \mid \mathsf{o}}{1 \mid 7} = \boxed{}$$

$$\frac{\mathsf{r} \mid \mathsf{o}}{0 \mid 6} = \boxed{}$$

$$\frac{\mathsf{T} \mid \mathsf{o}}{2 \mid 5} = \boxed{}$$

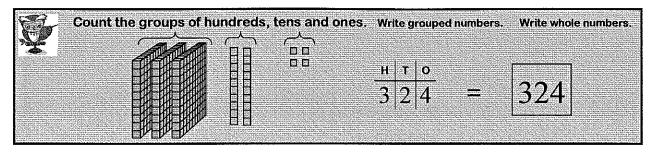
$$\frac{\mathsf{r} \mid \mathsf{o}}{5 \mid 1} = \square$$

$$\frac{\mathsf{T} \mid \mathsf{o}}{4 \mid 4} = \boxed{}$$

$$\frac{\mathsf{r} \mid \mathsf{o}}{5 \mid 5} = \boxed{}$$

Exercise 1d: Counting Groups

Every 3- digit whole number has a hundreds place, a tens place, and a ones place.



Count the grouped images of hundreds, tens, and ones. Write the grouped numbers, then write the whole number.

1.

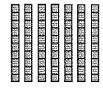




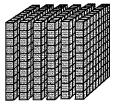


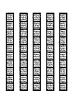
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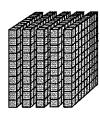


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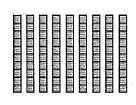
4.





5.





$$= \frac{H|T|O}{|T|}$$

CHAPTER 5: MULTIPLICATION & DIVISION

Exercise 20a:

Basic Multiplying Facts for Seven

Memorize these multiplication facts when multiplying with 7.

0 1 2 3 4 5 6 x 7 x 7 x 7 x 7 x 7	7	8	9	10
	x 7	x 7	x 7	x 7
0 7 14 21 28 35 42	49	56	63	70

Multiply these problems.

1.
$$\begin{array}{ccc}
 a & b \\
 7 & 7 \\
 \times 0 & \times 1
\end{array}$$

$$c$$
 7
 $\times 2$

$$\begin{array}{c}
d \\
7 \\
\times 3
\end{array}$$

$$7 \times 4$$

$$f$$
 7
 $\times 5$

$$g$$
 7
 $\times 6$

$$\frac{2}{\times 7}$$

$$\frac{6}{\times 7}$$

$$\begin{array}{c} 7 \\ \times 7 \end{array}$$

$$4 \times 7$$

$$\frac{0}{\times 7}$$

$$\begin{array}{c} 3 \\ \times 7 \end{array}$$

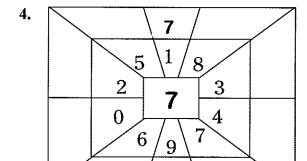
3.
$$7 \times 7$$

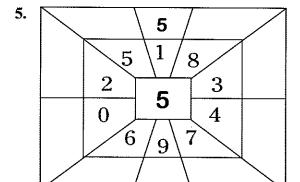
$$\frac{7}{\times 8}$$

$$7 \times 9$$

$$5 \times 7$$

$$\begin{array}{c} 6 \\ \times 7 \end{array}$$





h

i

Exercise 20b: Review Addition & Subtraction

cise 20b:
 Review Addition & Subtraction

$$h$$
 i
 j

 a
 b
 c
 d
 e
 f
 g
 91
 42
 73

 1.
 40
 22
 98
 24
 40
 38
 95
 76
 36
 67

 14
 25
 35
 42
 23
 14
 26
 17
 79
 40

 +87
 +68
 +10
 +41
 +67
 +74
 +13
 +12
 +29
 +79

2. Subtract these problems.

Review the Sevens Times Table.

CHAPTER 5: MULTIPLICATION & DIVISION

Exercise 20c:

LIQUID MEASURMENTS

- 1. How much milk does your mother buy each day? What other liquids are sold by the pint or by the quart? by the gallon?
- 2. Fill a pint bottle with water and pour it into an empty quart bottle. Then pour another pint into the quart bottle. Does this fill the quart bottle? How many pints make a quart?
- 3. Pour a quart of water into an empty gallon can. Repeat until the can is filled. How many quarts equal 1 gallon?
- 4. Memorize this table of U. S. *liquid measure*:
- 5. If 4 cups can be filled with 1 qt. of water, how many cups will be needed to fill 2 quarts?
 or 1 pint?



- 6. If child would drink 4 cups of milk every day, how many quarts of milk is that? How many pints is it?
- 7. How many quarts are there in 1 gal.? in 2 gal.?
- 8. What numbers should be put in place of the dots?

- 9. Mary made 5 qt. of lemonade. How many cups full would 5 qt. make?
- 10. It cost Mary 4¢ a quart to make the lemonade. How much did the 5 qt. cost?

Exercise 20d:

Basic Multiplying Facts for Eight

Memorize these multiplication facts when multiplying with 8.

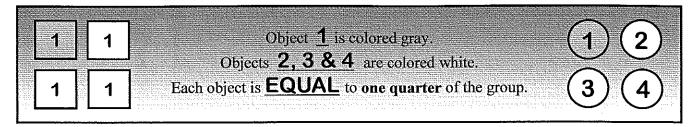
0 1 2 3 4 5 6 x 8 x 8 x 8 x 8 x 8	7	8	9	10
X 8 X 8 X 8 X 8 X 8 X 8 X 8 X 8 X 8 X 8	x 8	x 8	x 8	x 8
0 8 16 24 32 40 48	56	64	72	80

CHAPTER 7: MULTIPLICATION & DIVISION

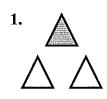
Exercise 35d:

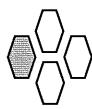
FRACTIONS - PART OF A GROUP

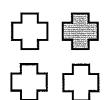
Groups of objects can be divided into equal parts. A part of a group is also a fraction.



Circle the groups that have ¼ of the group shaded in gray.





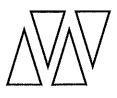


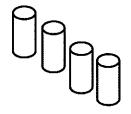


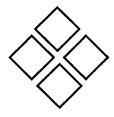


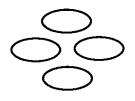
Shade in 1/4 of each of these groups of objects.*

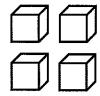
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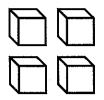


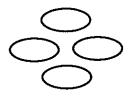


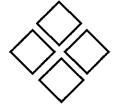


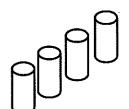
Shade in 1/2 of each of these groups of objects.*

3.







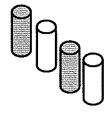


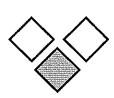


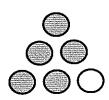
Write what fraction of each group of objects is shaded in gray.

4.









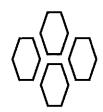


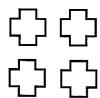
CHAPTER 7: MULTIPLICATION & DIVISION

Exercise 35d: Continued

Shade in 3/4 of each of these groups of objects.











Exercise 35e:

WORD PROBLEMS

LEARNING ABOUR ONE FOURTH

1. When one thing, like an apple, is divided into 4 equal parts, each part is called *one fourth* of the whole thing. One fourth

is written like:





2. Which is the larger part, ¼ of an apple or ½ of an apple?

3. Betsy has 12 daisies. She divides them into 4 equal groups. Each group has one fourth, or 1/4, of the whole number of daisies. How many daisies is 1/4?



4. Count how many daisies Betsy has in each group. Then divide 12 by 4. Is 1/4 of 12 the same as 12 ÷ 4?

To find 1/4 of a number, divide it by 4.

- 5. Edwin earned \$24. He spent ¼ of it for a trip to the country. How much did the trip cost?
- **6.** Alice has a piece of ribbon 20 in. long. She wants to make 4 badges of the same size from it. How many inches long will each badge be?
- 7. Grace earned \$16 by helping Mrs. Roth. She put one fourth of it into her savings account. How much did Grace save?

a

b

c

8. ¼ of 8

1/4 of 32

1/4 of 28 men

9. ¼ of 12

1/4 of 20

1/4 of 4 plums

10. ¼ of 16

1/4 of 24

1/4 of 36 cents