Topic 13

Enrichment

NAME: _____

Name _____

More Than One Way

Study each set of decimals. Decide which decimal does NOT belong. Then explain why.

Hint: There may be more than one way to group the decimals.

1.
| 1.3   2.6   3.01   3.1 |

_____

_____

2.
| 5.41   1.55   0.41   6.02 |

_____

_____

3.
| 80.08   62.24   11.33   75.75 |

_____

_____

4.
| 7.34   57.34   22.34   42.7 |

_____

_____

5.
| 0.99   0.24   5.82   0.7 |

_____

_____

6.
| 8.02   9.33   0.05   4.04 |

_____

_____

7.
| 5.63   4.6   9.61   7.46 |

_____

_____

8.
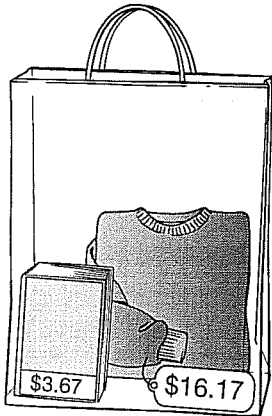| 3.51   6.44   1.00   2.62 |

_____

_____

Name _____

Shopping Swap

Four friends went shopping to buy presents for their families. **Reasonableness**
Each started with the same amount of money, $20.00. Somehow,
the shopping bags got all mixed up by the end of the shopping trip.
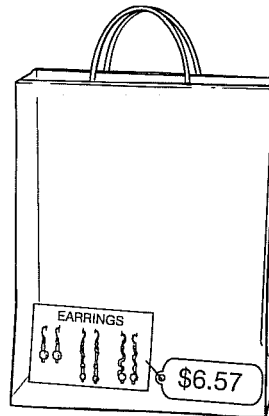Use estimation to place the name of the shopper under his or her
correct bag.

- April has $13.43 left.   • Carole has $0.16 left.
- Victor has $7.19 left.   • Zoe has $11.04 left.

1.

$3.67 $16.17

_____

2.

EARRINGS $6.57

_____

3.

$1.49

PEN PAK

$7.47

_____

4.

$12.81

_____
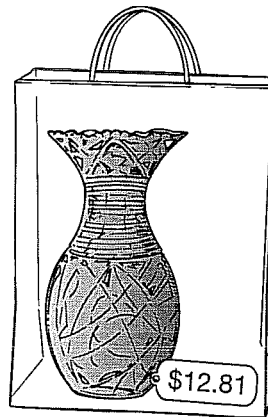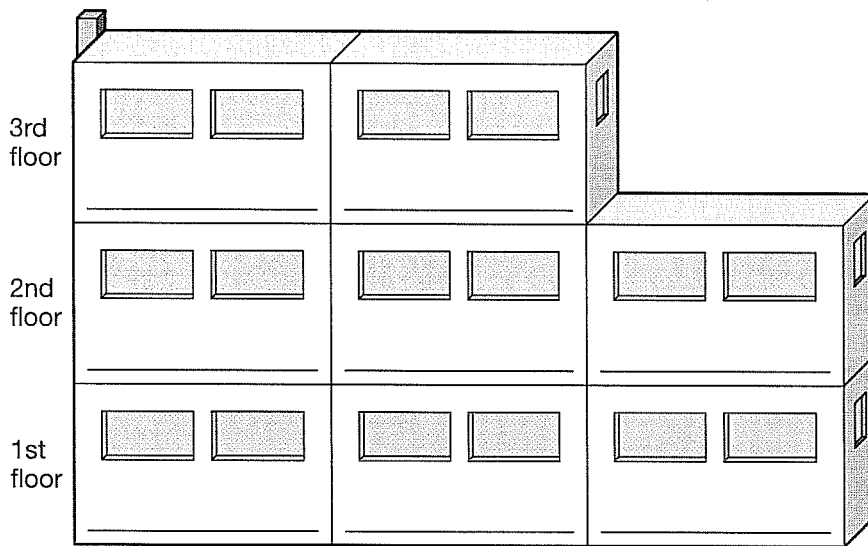
Where Do You Live?

Read the clues to find where each person lives
in the apartment building. As you discover where
each person lives, write the person's name in the apartment.

1. At Rosebud Terrace, there are 8 apartments. The names
   of the tenants are Bill, Madeline, Warrick, Pamela, Quincy,
   Salma, Todd, and Kendra.

   • Salma lives on the second floor.

   • Quincy lives directly above Warrick.

   • Bill lives next to Pamela.

   • Madeline lives to the left of Warrick and to the right of Kendra.

   • Todd lives to the left of Quincy.

   • Pamela lives right above Todd.

2. Explain how you found each person's place in the
   apartment building.

   _____

   _____

   _____

Puzzling Decimals

Add. Write your answers in the cross-number puzzle. Use one square for each digit or decimal point. The first one is done for you.

Reasoning

¹ **7**	**.**	² **3**	**6**		³			⁴
⁵					⁶			
			⁷					
⁸						⁹		
						¹⁰		¹¹
			¹²					
¹³								

Across

1. $2.19 + 5.17$ _____

3. $23.14 + 28.15$ _____

5. $15.4 + 59.1$ _____

6. $19.49 + 43.29$ _____

8. $183.26 + 51.55$ _____

10. $2.9 + 3.8$ _____

12. $9.28 + 11.79$ _____

13. $205.27 + 110.35$ _____

Down

1. $3.3 + 4.48$ _____

2. $12.2 + 19.5$ _____

3. $427.83 + 118.38$ _____

4. $1.92 + 0.82$ _____

7. $3.9 + 4.82$ _____

8. $17.44 + 8.49$ _____

9. $172.9 + 394.9$ _____

11. $5.3 + 1.85$ _____

Museum Price

Use the admissions information below for **1** through **4**.

Admission Science Museum	
General Admission	$6.50
Children under 12	$4.25
Family Admission	$22.50

Admission Art Museum	
Adults	$8.00
Students and Senior Citizens	$5.50
Groups of 5 or more	$42.50

The Evans family consists of 1 adult, 1 senior citizen, and 3 children ages 8, 13, and 16. All the children are still in school.

1. What is the least expensive way for them all to attend the Science Museum? How much would they save over the other way?

_____

_____

2. What is the least expensive way for them to all attend the Art Museum? How much would they save over the other way?

_____

_____

The Johanson family consists of 2 adults and 2 school children ages 8 and 11.

3. Does it make a difference whether the Johansons buy individual admissions or a family admission to the Science Museum? Explain.

_____

_____

4. The Evans and Johanson families are planning to meet outside the Art Museum before going in. Would it make sense for them to buy a group admission?

_____

Name _____

Air Traffic Control

Use the information regarding travel times and distances
from Baltimore Airport for the following exercises.

Algebra

Place	Mileage	Travel Time
Boston	500.5	1 hour
St. Louis	1,200.2	2 hours
Los Angeles	3,000.6	6 hours
Dallas	1,900.2	3 hours

1. How many miles per hour does the plane go from Baltimore
to Dallas?

_____

2. The plane lands halfway from Baltimore to St. Louis. How
many miles has the plane flown?

_____

3. The Smiths flew from Baltimore to Boston and back and then
to Los Angeles. How fast did they travel?

_____

4. The Kotts fly to Boston and back and then to St Louis. The
Kims fly back and forth to Dallas. Which family flies faster?
How many miles per hour do they each fly?

_____

_____

_____

Find the Mystery Number

Follow the clues to discover the mystery number in each box at the right. Each clue tells you a number that **CANNOT** be the mystery number.

1. It is not the average of 11, 9, 8, and 12.

   It is not the product of 4 and 15.

   It is not the value of n in $35 \div n = 5$.

   It is not an estimated quotient of $37 \div 6$.

   It is not the quotient of $20 \div 5$.

   The mystery number is _____.

7	5
4	10
6	60

2. It is not the average of 15, 14, 13, and 18.

   It is not the quotient of $320 \div 10$.

   It is not the estimated quotient of $275 \div 9$.

   It is not the missing number in $42 \div \boxed{} = 7$.

   It is not the average of 7, 8, 9, 6, and 5.

   The mystery number is _____.

18	30	6
32	7	15

3. It is not the quotient of $45 \div 9$.

   It is not the average of 7, 8, 9, 10, and 11.

   It is not the product of 23 and 3.

   It is not the sum of 23 and 43.

   It is not double the product of 2×8.

   The mystery number is _____.

32	17		
	66	9	
		69	5