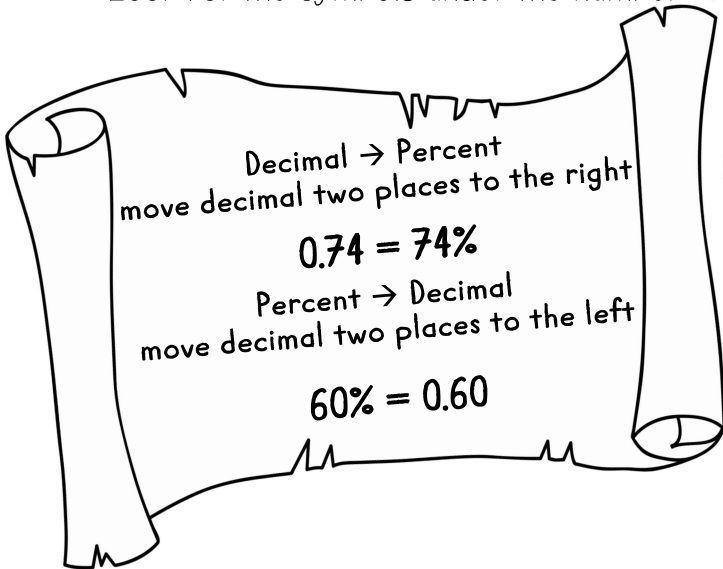Name _____

Date _____ Pd_____

ORDERING RATIONAL NUMBERS

INTRODUCTION

Raul and Dana are taking part in a mystery treasure hunt! They are given the challenge of solving four different tasks which will give them the secret code to open the treasure chest. Look for the symbols under the number blanks to reveal the secret code!

Decimal → Percent
move decimal two places to the right

$$0.74 = 74\%$$

Percent → Decimal
move decimal two places to the left

$$60\% = 0.60$$

TASK 1

Raul and Dana are challenged by needing to convert a percent to a decimal and a decimal to a percent. Luckily, their challenge gives them a clue card. Use the clue card to fill in the empty boxes, showing the numbers as both a percent and a decimal. Then, order the original numbers from least to greatest.
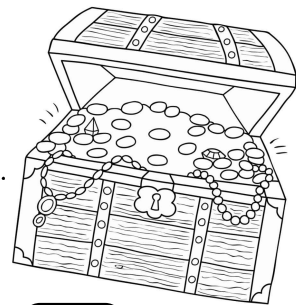
| 68% | → | |

| | ← | 0.19 |

| 200% | → | |

| | ← | $0.\overline{333}$ |

| 0.4% | → | |

| | ← | 0.125 |

____ ____ ____ ____ →

TASK 2

Unscramble the puzzle below by ordering the set of numbers from least to greatest. Then, write the sorted numbers in the blanks below.

$\frac{3}{8}$ $\frac{5}{4}$ 85%   2.5   0.15 $\frac{2}{3}$ 1.8   50%

____ ____ ____ ____ ____ ____ ★ ____ ____

TASK 3:

Clues A, B and C are missing values that will help unlock the treasure chest. Use the rational numbers in the bank below to fill in the blanks, keeping the tables ordered from least to greatest.

$2\frac{5}{16}$ $2\frac{5}{8}$ 0.375   26.9%   0.021   2.9 $2\frac{6}{7}$
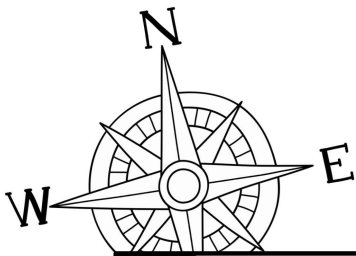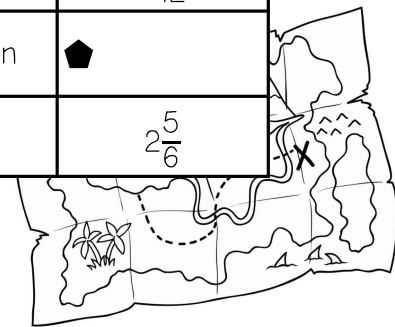
CLUE A

NAME	PORTION OF THE DAY
Julie	28.4%
D'Marcus	←
Francis	$\frac{5}{12}$
Xavier	$\frac{3}{7}$

CLUE B

NAME	PERCENT DECREASE
Bobby	0.5%
June	0.95%
Marcella	✚
Clark	3.4%

CLUE C

NAME	# OF MILES
Alvin	$2\frac{3}{8}$
Santiago	$2\frac{5}{12}$
Gretchen	⬟
Miriam	$2\frac{5}{6}$

TASK 4:

In the last and final task, Raul and Dana must order the scrambled numbers below from least to greatest.

A | 400% | | -2.9 | | $\frac{7}{2}$ | | -30% | → __ __ __ __
                                                             ♥

B | -0.9 | | 1.15% | | -1.04 | | -0.7 | → __ __ __ __
                                                        ◆

C | $-\frac{4}{5}$ | | -4.55 | | $-4\frac{1}{5}$ | | $\frac{15}{4}$ | → __ __ __ __
                                                          ▲

UNLOCK THE TREASURE CHEST:

Place the numbers throughout the challenges into the correct blanks below to see if you unlocked the treasure chest!

➡ __   ★ __   ⬅ __   ✚ __   ⬟ __   ♥ __   ◆ __   ▲ __