

Name: _____
Ms. Napolitano

Date: _____
Activity: 5.3

Topic: Equivalent Ratios

I can use a table to find equivalent ratios.

Homework Day 5.5 MIT

- 1** Complete the table to show the number of black and white marbles in a bag, assuming the relationship is proportional.

Number of black marbles		26				
Number of white marbles	1	2	3	4	5	6

The unit rate of black marbles to white marbles is _____.

- 2** Andrew buys 8 pounds of apples for \$11.60. He wants to know and use the unit rate of the cost per pound. Tell whether each statement is *True* or *False*.

- a. Use $\frac{8}{11.6}$ to find the unit rate. ☐ True ☐ False
- b. The unit rate is 1.45. ☐ True ☐ False
- c. 5 pounds of apples cost \$7.25. ☐ True ☐ False
- d. Two pounds of apples cost less than \$3. ☐ True ☐ False

- 3** Ed swam 96 lengths of the pool in 1 hour. Which table correctly shows equivalent ratios for this situation?

A

Lengths	20	42	70	96	110
Time (min)	15	30	45	60	75

B

Lengths	22	46	70	96	118
Time (min)	15	30	45	60	75

C

Lengths	24	48	72	96	120
Time (min)	15	30	45	60	75

D

Lengths	30	56	81	96	112
Time (min)	15	30	45	60	75

Solve.

- 4** In Ellen's sixth-grade class, there are 14 boys and 11 girls. Write each ratio using numbers in two ways.

Number of girls to number of boys

Number of boys to total number of students

Total number of students to number of girls

Number of boys to number of girls

- 5** For every 4 miles that Pedro runs, he walks 3 miles. Tell whether each statement is *True* or *False*.

- | | | |
|--|-------------------------------|--------------------------------|
| a. The ratio of miles walked to miles run is 4 : 3. | <input type="checkbox"/> True | <input type="checkbox"/> False |
| b. The ratio of miles walked to total miles is 3 : 7. | <input type="checkbox"/> True | <input type="checkbox"/> False |
| c. The ratio of miles run to total miles is 7 to 3. | <input type="checkbox"/> True | <input type="checkbox"/> False |
| d. The ratio of total miles to miles run is $\frac{7}{4}$. | <input type="checkbox"/> True | <input type="checkbox"/> False |
| e. The ratio of miles run to miles walked is 4 to 3. | <input type="checkbox"/> True | <input type="checkbox"/> False |

- 6** For sixth-grade field day, 6 students in Alice's class are playing volleyball, 5 students are playing soccer, and 9 students are playing basketball. Alice said that the ratio of students playing volleyball to basketball was 6 : 9. Alex said that the ratio of students playing basketball to volleyball was $\frac{9}{6}$. Who is correct? Explain.
