

Name: _____ Date: _____ Per: _____

Math Lab

Unit: Problem Solving (1.5)

Formula Sheet

Distance Formula:

Use page 30 in the textbook for formulas.

Ex: How far do you travel if you drive 60 miles per hour for 3 hours?

Ex: How long does it take to run 100 meters at a rate of 25 m/s?

Ex: Usain Bolt set a world record in the 100 meter dash with a time of 9.58 seconds. What is his average speed during the sprint?

Celsius - Fahrenheit Conversion Formulas:

Ex: What is the temperature in Celsius if it is 50°F?

Ex: What is the temperature in Fahrenheit if it is 5°C?

Profit:

Ex: Student council spends \$200 to plan a student/staff charity basketball game. How much profit do they make if they sell 350 tickets for \$3 each?

Ex: You want to make and sell chocolate lollipops. The cost to make each lollipop is \$0.50, which includes the stick, chocolate and candy topping. You plan to sell your lollipops at lunch for \$1.00. What will be your total profit if you make 50 lollipops but only sell 40? Was it worth it to sell them?

Interest Formula:

Ex: You buy a car that costs \$15,500. Your interest rate is 6% for a five-year period.

a) What is the total amount you will pay in interest?

b) What is the total amount you will pay for the car?

c) What will be the cost of your monthly payments?