

Name \_\_\_\_\_

Show all work and calculations.

Print in both sides

## Part 3: Math Skills

### Conversions

The United States uses a system of measurement called the US Customary system. This system consists of feet, pounds, ounces, miles, inches, and degrees Fahrenheit. Most other countries use the *Système International d'Unités* (SI), or International System of Units, which consists of meters, grams, and degrees Celsius.

Use the following equations to answer the questions involving conversions.

US Customary	SI
1 mile	1.60934 kilometer
3.28084 feet	1 meter
1 inch	2.54 centimeters
1 pound	453.592 grams
2.20462 pounds	1 kilogram
1 ounce	28.3495 grams

$$\text{degrees Celsius} = \frac{(\text{degrees Fahrenheit} - 32) \times 5}{9}$$

$$\text{degrees Fahrenheit} = \frac{\text{degrees Celsius} \times 9}{5} + 32$$

1. A delivery truck is traveling from Montana into Alberta, Canada. After crossing the border into Canada, the speed limit changes from miles per hour to kilometers per hour. The new speed limit is 125 kilometers per hour. If the truck is traveling at 75 miles per hour, is it under or over the speed limit?

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2. A sporting goods company in Indiana receives an order to make soccer goals for a customer in Portugal. A regulation soccer goal is 24 feet wide and 8 feet high. What are the same dimensions in meters?

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- 3. A medical products company in Atlanta receives an order from Spain for a special facial ointment. The standard package weight is 20 ounces. What is this weight in grams?

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- 4. A tourist is traveling back to the United States from Brazil and is checking baggage at the airport. The airline charges a \$50 fee if a checked bag weighs over 50 pounds. The tourist checks a souvenir package that weighs 22 kilograms. Will the airline charge a fee?

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- 5. You hear the weather forecast on television in a Canadian hotel. The high temperature tomorrow will be 20 degrees Celsius. What is this temperature in degrees Fahrenheit?

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