1. Faith wants to use the formula  $C(f) = \frac{5}{9}(f-32)$  to

convert degrees Fahrenheit, f, to degrees Celsius, C(f). If Faith calculated C(68), what would her result be?

1. 20° Celsius

2. 20° Fahrenheit

3. 154° Celsius 4. 154° Fahrenheit

$$c(68) = \frac{5}{9}(68 - 32)$$

$$= \frac{5}{9}(36) = 5.4 = 20$$

Carla bought a dress at a sale for 20% off the original price. The sale price of the dress was \$28.80.Find the original price of the dress, in dollars.

$$\frac{.8P = 28.80}{.8} P = 36$$

3. Rashawn bought a CD that cost \$18.99 and paid \$20.51, including sales tax. What was the rate of the sales tax?

1.5% 2.2% 3.3% 
$$\frac{2.2\%}{4.8\%}$$

$$\frac{\chi(18.99) = 20.51}{18.99}$$

$$18.99 \quad 18.99$$

$$\chi = 1.08 \Rightarrow tax 8\%$$

If 25% of a number is 12, find the number.
 24
 48

$$\frac{.25 \times = 12}{.25}$$
  
 $\frac{.25}{.25}$ 

5. Yesterday, the temperature was 80°F. Today, the high temperature was 75°F. What was the percent of change in the temperature?

6. What is the product of 4 + 3i and 4 - 3i?

2.16

3. 7

4. 5

$$(4+3i)(4-3i)$$

$$= 16-12i+12i-9i^{2}$$

$$= 16+9=25$$

7. The expression  $(3 - 7i)^2$  is equivalent to: