Name _____ Class _____ Date _____

Reteaching 3-4 Using Formulas

Given that C is the temperature in degrees Celsius, use the formula $F = 1.8C + 32$ to find the temperature F in degrees Fahrenheit. What is the temperature in degrees Fahrenheit for a temperature of 18° in Celsius?

$F = 1.8C + 32$ Write the formula.
$F = 1.8(18) + 32$ Substitute 18 for C.
$F = 32.4 + 32$ Simplify.
$F = 64.4°$

The temperature is 64.4° Fahrenheit, or 64.4°F.

Find the temperature in degrees Fahrenheit for each temperature in degrees Celsius.

1. $C = 4°$ $F = 1.8($ _____ $) + 32 =$ _____ $+ 32 =$ _____

2. $C = 40°$ $F = 1.8($ _____ $) + 32 =$ _____ $+ 32 =$ _____

3. $C = 22°$ $F = 1.8($ _____ $) + 32 =$ _____ $+ 32 =$ _____

4. $C = 35°$ $F = 1.8($ _____ $) + 32 =$ _____ $+ 32 =$ _____

5. $C = -6°$ $F = 1.8($ _____ $) + 32 =$ _____ $+ 32 =$ _____

6. $C = -24°$ $F = 1.8($ _____ $) + 32 =$ _____ $+ 32 =$ _____

Given that F is the temperature in degrees Fahrenheit, the formula $C = (F - 32)/1.8$ is the temperature C in degrees Celsius. Find the temperature in degrees Celsius for each temperature in degrees Fahrenheit.

7. $F = 68°$ $C = ($ _____ $- 32)/1.8 =$ _____ $/1.8 =$ _____

8. $F = 17.6°$ $C = ($ _____ $- 32)/1.8 =$ _____ $/1.8 =$ _____

9. $F = 5°$ $C = ($ _____ $- 32)/1.8 =$ _____ $/1.8 =$ _____

10. $F = 57.2°$ $C = ($ _____ $- 32)/1.8 =$ _____ $/1.8 =$ _____

11. $F = 32°$ $C = ($ _____ $- 32)/1.8 =$ _____ $/1.8 =$ _____

12. $F = 212°$ $C = ($ _____ $- 32)/1.8 =$ _____ $/1.8 =$ _____