

Algebra 1 2.1

Translate sentences into equations

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variable

formula

sum

product

difference

quotient

equals

activity: 5 in a row (if time)

Translate each sentence into an equation.

21. The difference of f and five times g is the same as 25 minus f .

22. Three times b less than 100 is equal to the product of 6 and b .

23. Four times the sum of 14 and c is a squared.

$$f - 5g = 25 - f$$

$$3b - 100 = 6b$$

$$4(14 + c) = a^2$$

24. **MUSIC** A piano has 52 white keys. Write and use an equation to find the number of octaves on a piano keyboard.
25. **GARDENING** A flat of plants contains 12 plants. Yoshi wants a garden that has three rows with 10 plants per row. Write and solve an equation for the number of flats Yoshi should buy.

$$\frac{52}{8} = x \quad 6.5$$

$$12 \cdot 3 = 36$$

$$10 \cdot 3 = 30$$



Translate each sentence into a formula.

26. The perimeter of a rectangle is equal to 2 times the length plus twice the width.

27. Celsius temperature C is five ninths times the difference of the Fahrenheit temperature F and 32.

$$2L + 2W = P$$

$$\frac{5}{9}(F - 32)$$

$$\frac{5}{9}(F - 32) = C$$

$$C = \frac{5}{9}(F - 32)$$

$$D = \frac{m}{V}$$

28. The density of an object is the quotient of its mass and its volume.

29. Simple interest is computed by finding the product of the principal amount p , the interest rate r , and the time t .

$$i = p \cdot r \cdot t$$

Activity: Five in a row

