

1.3 Evaluating Expressions

Evaluate: Replace variables
with numbers
± solve.

Ex) Evaluate $27 - x$ for $x = 5$.

$$27 - 5 = \textcircled{22}$$

Ex) Evaluate $18 + 2g$ for $g = 3$.

$$18 + 2(3)$$
$$18 + 6 = \textcircled{24}$$

Ex) Evaluate $2ab$ for $a = 3$ and $b = 4$.

$$2(3)(4)$$
$$\checkmark$$
$$6(4) = \textcircled{24}$$

Word Problems

Ex) An online music store charges \$14 for each CD. Shipping costs \$6 per order. Find the cost of ordering 8 CD's.

let $X = \text{number of CD's}$

$$\text{Cost} = 14X + 6$$

$$14(8) + 6$$

$$112 + 6 = \textcircled{\$118}$$

Word Problems

Ex) The Omelet Café buys cartons of 36 eggs.

Write a variable expression for the number of cartons needed for x eggs. Then evaluate for 180 eggs.

let $X = \text{number of eggs}$

$$\text{Cartons} = \frac{X}{36} = \frac{180}{36} = \textcircled{5 \text{ cartons}}$$