

Misconceptions and Errors

Sublevel Description:

The student understands the equal sign as a need to compute something.

Misconception

Solve: $3x + 6 = 18$

~~$x = 18$~~

Sublevel Description:

The student can combine basic “like terms.”

$$2x + 3x = 5x$$

$$4 + 5x + 7 = 11 + 5x$$

Error

$$7x + 13$$

~~$20x$~~

Plan to Connect

Each student on the track ran $\frac{1}{4}$ of a mile. If there are 7 runners, how far did they run altogether?

A. 7 miles

B. $\frac{4}{7}$ miles

C. $\frac{7}{4}$ miles

D. 4 miles

$$\frac{1}{4} \times 7 = \frac{7}{4}$$

$$7 \overline{) 28} \begin{array}{r} 4 \\ \end{array}$$

