

Algebra 1

2.1

Translate sentences into equations

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variable

formula

sum +

product ×

difference −

quotient ÷

equals

activity: matching

GuidedPractice

4A. $15 = 25u^2 + 2$

4B. $\frac{3}{2}r - t^3 = 132$

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When given a set of information, you can create a problem that relates a story.

Example 5 Write a Problem

Write a problem based on the given information.

$t =$ the time that Maxine drove in each turn; $t + 4 =$ the time that Tia drove in each turn; $2t + (t + 4) = 28$

16 hrs

Maxine + Tia went on a trip. Maxine drove 4 hours more than Tia. Total drive was 28 hrs.

$$2t + (t + 4) = 28$$

answer

12 Tia.

2 times Maxine's time plus Tia's time was 28 hrs.

$$\begin{aligned} 2t + t + 4 &= 28 \\ 3t + 4 &= 28 \\ \underline{-4} &\quad \underline{-4} \\ 3t &= 24 \\ \underline{3} &\quad \underline{3} \\ t &= 8 \end{aligned}$$

