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Chapter

Whole Numbers

What will be covered: Solving Word Problems Involving Repeated Quantities Same Quantity (Before) Same Quantity (After) Before-and-After: Same Total Quantity (Internal Transfer) Before-and-After: Same Total Quantity (Fixed Items) Before-and-After: Same Total Quantity (Equal Amount Removed and Added) Before-and-After: Same Difference (Age) Before-and-After: Same Difference (Same Quantity Removed) Before-and-After: Same Difference (Same Quantity Removed) Before-and-After: Same One Quantity Before-and-After: Both Quantities Changed

Worked Example

Type 3

Leah, Min and Nate went on a shopping spree. Leah and Min spent a total of \$245. Leah and Nate spent \$605 altogether. Nate spent three times as much as Min.

- (a) How much did Min spend?
- (b) How much did Leah spend?

Solution:



3 Solving Word Problems Involving the Same Quantity (After)



1. Chloe had 72 stickers and Shelly had 29 stickers. After buying an equal number of stickers at the shop, Shelly had two times as many stickers as Chloe. How many stickers did each of them buy?

2. Cass had \$112 and Drake had \$348 more than Cass. After receiving an equal amount of money from their grandmother, Drake had three times as much money as Cass. How much did each of them receive from their grandmother?

2 Addition/Subtraction of Fractions (Mixed Number/ Improper Fraction)

Worked Example

A tailor had $2\frac{5}{6}$ m of thread. He used $\frac{2}{3}$ m of it to sew a pair of pants and $\frac{1}{2}$ m to sew a shirt. (a) How much thread did he use altogether? (b) How much thread did he left? (Express your answer as an improper fraction.)

Solution:

(a) (Used)
$$\frac{2}{3} + \frac{1}{2} = \frac{4}{6} + \frac{3}{6}$$

= $\frac{7}{6}$
He used $\frac{7}{6}$ m of thread.
(b) $2\frac{5}{6} = \frac{17}{6}$
(Left) $\frac{17}{6} - \frac{7}{6} - \frac{10}{6}$
He left $\frac{10}{6}$ m of thread.