Answers

Solving Mixed Number Sums
with Bar Diagrams

Name: _____   Date: _____

Solve the following word problems by filling in the bar diagrams below each exercise.

1. Jenny and Tina drove to their aunt Julie's house. Jenny drove 98 3/4 miles. Tina drove 153 3/7 miles before they arrived. How many miles did they drive in all?

$153 \frac{3}{7} = 153\frac{12}{28}$ miles	$98 \frac{3}{4} = 98 \frac{21}{28}$?

$153\frac{12}{28}$ miles $+ 98 \frac{21}{28} = 251\frac{33}{28}$ miles $252 \frac{5}{28}$ miles

2. Milo flew 98 2/9 kilometers to Stuttgart to visit his uncle Ben. After picking up Milo, Ben drove 9 ¾ kilometers to his house in Ludwigsburg. How many kilometers had Milo traveled in all?

$987 \frac{2}{9}$ kilometers	$9 \frac{3}{4}$?

$987 \frac{12}{28}$ kilometers $9 \frac{27}{36} = 996 \frac{35}{36}$ kilometers

3. It was Hazel's first trip to the Bahamas and she flew 300 3/16 more miles than she flew last summer. Last summer she flew 246 2/8 miles. How many miles had Hazel flown in all?

$300 \frac{3}{16}$ miles	$246 \frac{2}{8} = 246 \frac{4}{16}$?

$300 \frac{3}{16} +$ $246 \frac{4}{16}$ $= 546 \frac{7}{16}$ miles

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4.   In the relay, Dexter was to run 3 3/8 of the course. Afterwards, Eli was to continue 6 5/16 of the course. How much of the course did Eli and Dexter run combined?

$3\frac{3}{8} = 3\frac{6}{16}$ miles	$6\frac{5}{16}$	?

$$3\frac{6}{16} + 6\frac{5}{16} = 9\frac{11}{16} \text{ miles}$$

5.   Nobody wanted to ride the 22 1/3 miles back to town after the family reunion. So relatives rode 2 5/8 miles to the nearest hotel. How many miles did the family ride in all?

$22\frac{1}{3} = 22\frac{8}{24}$ miles	$2\frac{5}{8} = 2\frac{15}{24}$	?

$$22\frac{8}{24} + 2\frac{15}{24} = 24\frac{23}{24} \text{ miles}$$