

Solving Mixed Number Differences with Bar Diagrams

Name: _____

Date: _____

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

1. Sylvia the flower lady needed $52 \frac{1}{2}$ yards of mulch for her garden. But she only had $28 \frac{4}{5}$ yards. How much more mulch would Sylvia need to buy for her garden?

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2. Peter's hydroponics planters pipe $923 \frac{1}{8}$ quarts of water a day in his new hothouse. But Peter's petunias, pansies and peonies need $389 \frac{2}{9}$ less quarts of water to thrive in their new home. How much water do Peter's plants require?

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3. Harry's Humongous Home for Animals, needed $78 \frac{3}{4}$ hectares to house herds of hamsters, hedgehogs and hyenas. But Harry humbly had $41 \frac{2}{3}$ hectares. How many more hectares would Harry need for his Humongous Home for Animals?

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4. Freddy Fontaine's Farm for Fertilizer ships $36 \frac{4}{7}$ pounds of fertilizer per pack, but customizes for accuracy on orders over 40 pounds. Fantasia's Flowers requested $288 \frac{4}{5}$ pounds of fertilizer for her foxgloves, freesias and forsythias. How much more fertilizer than a pound, would Freddy need to fulfill Fantasia's order?

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5. After an earthquake, Peter's hydroponic planters got punctured and wasted $236 \frac{3}{15}$ gallons of water a day. Peter's accountant, Carl, calculated the cost to be a loss of $38 \frac{3}{5}$ gallons by noon. How much more water was wasted in the day?

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