

# Stories with Fractions

NCTM Standards 1, 2, 4, 6, 7, 9

- 1** Keffie and Danny were painting a mural at school. They need to make a special color, so they mixed  $4\frac{1}{2}$  pints of blue paint,  $2\frac{1}{6}$  pints of white paint, and  $\frac{2}{3}$  of a pint of green paint.

Write a number sentence to show how many pints of their special color they had.

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- 2** Jake ran five-sixths of a mile. Shayne ran three-fourths of a mile.

Who ran farther? Jake or Shayne?

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Write a number sentence to show the difference between the two distances.

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- 3** Michaela spent two-thirds of her allowance on a magazine. She spent one-fourth of her allowance on candy.

Write a number sentence to show the fraction of her allowance that she spent on both items.

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Write a number sentence to show the fraction of her allowance she has left.

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- 4** Two-sevenths of the students in Sammy's class were at band practice. One-fourth of the students were at chorus practice.

Are there more students at band practice or at chorus practice?

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What fraction of the class is out of the room?

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- 5 Joseph and Derek had a goal to collect twenty-four used books for the school book sale. In the first week Joseph collected 9 books and Derek collected 8 books.

What fraction of the goal has **Joseph** collected so far?

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What fraction of the goal has **Derek** collected so far?

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Write a number sentence to show the fraction of the goal that remains.

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- 6 One day, Ahmad spent five-sixths of an hour on his homework and practiced piano for three-fifths of an hour.

How many minutes did he spend on homework?

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How many minutes did he spend on piano?

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Write a number sentence to show how many minutes he worked in all.

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Write a number sentence to show how many hours he worked.

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- 7 Tifani braided yarn until she had a rope that was five-sixths of a yard long. Then Danisha braided another three-fourths of a yard onto the end of Tifani's rope.

How many yards long is the rope now?

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How many inches did Tifani braid?

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How many inches did Danisha braid?

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Write a number sentence to show how many more inches they have to braid to have a rope 5 feet long.

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- 8 **Challenge** Ani had fewer than 25 marbles. She dropped one-fifth of them behind the sofa and hid three-fourths of them in her brother's room. She put the rest in her room.

Could Ani have started with 12 marbles?

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How many marbles did Ani have to start with?

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How many are in her room?

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