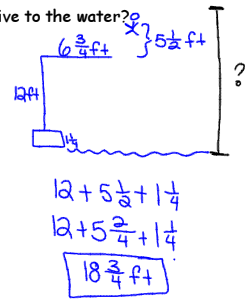
Rational Word Problem Practice Day

Do Now:

A diver climbs a 12 ft tower and walks $6\frac{3}{4}$ ft to the ends of the diving board. Then he jumps $5\frac{1}{2}$ ft above the board and dives into the water. The water level is $1\frac{1}{4}$ ft below the base of the tower. How far does the diver travel from the top of the dive to the water?



$12 + 5\frac{1}{2} + 1\frac{1}{4}$

$12 + 5\frac{2}{4} + 1\frac{1}{4}$

$18\frac{3}{4}$ ft

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Rational Word Problem Practice Day

1. Kate wants to draw a mural on a wall that is $113\frac{11}{15}$ feet long. The mural she wants to paint is $36\frac{2}{5}$ feet long. If she wants to paint the mural on the center of the wall, how far should the beginning and the end of the mural be from each end of the wall?

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2. Xavier ran four miles on his first day of training. The next day he ran eight ninths that distance. How far did he run the second day?

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3. A pitcher could hold two sixths of a gallon of water. If Carl filled up nine pitchers, how much water would he have?

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4. Sarabeth ran $1\frac{2}{5}$ miles on a path around the park. This was $\frac{5}{8}$ of the distance around the park. What is the distance around the park?

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5. On Saturday a restaurant used $6\frac{4}{12}$ cans of vegetables broth. On Sunday they used another $7\frac{1}{6}$ cans of vegetable broth. What is the total amount of cans of broth they used?

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6. Jon is hanging a picture. He wants to center it horizontally on the wall. The picture is $32\frac{1}{2}$ inches long, and the wall is $120\frac{3}{4}$ inches long. How far from each edge of the wall should he place the picture?

$\frac{353}{8} = 44\frac{1}{8}$

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7. Your local middle school has 600 students. Two thirds of the students have brown hair. Of these students, $\frac{1}{4}$ of them have blue eyes. How many students have brown hair and blue eyes?

$\frac{600}{1}\left(\frac{2}{3}\right) = \frac{1200}{3} = 400$ Students have brown hair

$\frac{100}{\cancel{400}}\left(\frac{1}{\cancel{4}}\right) =$ 100 Students have brown hair and blue eyes

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8. An interior decorator bought $12\frac{1}{2}$ yards of material to make drapes. He used $8\frac{2}{3}$ yards on 1 pair of drapes. How much material does he have left?

$12\frac{1}{2} - 8\frac{2}{3}$

$\cancel{12}\frac{3}{6} - 8\frac{4}{6}$

$11\frac{9}{6} - 8\frac{4}{6}$

$3\frac{5}{6}$ yds

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