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Give what is asked in each item and write your answers on the space provided.

1. Solve the equations.

    a. $2y + \frac{1}{4} = \frac{7}{8}$

    b. $3a + \frac{5}{9} = a + \frac{7}{9}$

    c. $\frac{7}{14} = 2x + \frac{1}{7}$

    d. $\left(\frac{7}{4} + 2z\right) + \frac{2}{4} = z + 2\frac{2}{8}$

Answers:

a.   b.   c.   d.

2. Joey has \$7 in his pocket. If he buys 2 pencils for \$ $1\frac{1}{2}$ each and a card for \$ $3\frac{3}{4}$, how much money will be left to Joey? Show your solution.

Answers:

3. Risa needs to create tests for two subjects. If a test for the first subject requires $\frac{5}{11}$ hours to finish and a test for the other subject requires $\frac{13}{22}$ hours, in how many hours can Risa finish 5 tests for the first subject and 3 tests for the second one?

Answers:

4. A small sack of rice weighs $\frac{4}{9}$. If the total weight of 3 small sacks and 2 big sacks of rice is 40 kl, how heavy is a larger sack of rice?

Answers:

5. Jake's height is $\frac{2}{3}$ in length of his brother's height. If their total height reaches 11 ft, how tall are the two boys?

Answers:

Solve Equations Involving Fractions – III

Give what is asked in each item and write your answers on the space provided.

1. Solve the equations.

   a. $2y + \frac{1}{4} = \frac{7}{8}$

   b. $3a + \frac{5}{9} = a + \frac{7}{9}$

   c. $\frac{7}{14} = 2x + \frac{1}{7}$

   d. $\left(\frac{7}{4} + 2z\right) + \frac{2}{4} = z + 2\frac{2}{8}$

   Answers:

   a. $\frac{5}{16}$ b. $\frac{1}{9}$ c. $\frac{5}{28}$ d. 0

2. Joey has \$7 in his pocket. If he buys 2 pencils for \$ $1\frac{1}{2}$ each and a card for \$ $3\frac{3}{4}$, how much money will be left to Joey? Show your solution.

   Answers:

   $7 - \left(1\frac{1}{2} \times 2\right) - 3\frac{3}{4} = \frac{1}{4}$ dollars

3. Risa needs to create tests for two subjects. If a test for the first subject requires $\frac{5}{11}$ hours to finish and a test for the other subject requires $\frac{13}{22}$ hours, in how many hours can Risa finish 5 tests for the first subject and 3 tests for the second one? Show your solution.

   Answers:

   $\left(\frac{5}{11} \times 5\right) + \left(\frac{13}{22} \times 3\right) = 4\frac{1}{22}$ hours

4. A small sack of rice weighs $\frac{4}{9}$. If the total weight of 3 small sacks and 2 big sacks of rice is 40 kg, how heavy is a larger sack of rice? Show your solution.

   Answers:

   $2x = 40 - \left(\frac{4}{9} \times 3\right) = 38\frac{2}{3}$, $x = 19\frac{1}{3}$ kg

5. Jake's height is $\frac{2}{3}$ in length of his brother's height. If their total height reaches 11 ft, how tall are the two boys? Show your solution.

   Answers:

   $\frac{2}{3}x + x = 11$, $x = 6\frac{3}{5}$ ft is Jake's brother's height, $\frac{2}{3}x = 4\frac{2}{5}$ ft is Jake's height