Additional Problems: Rational Expressions & Equations

**Solving Rational Equations**

**Some problems include the solution. Please remove before sharing with students.**

1. Solve for x:

\*\*Solution =

1. Solve for x:

\*\*Solution:

1. Solve for x:

\*\*Solution:

1. Solve for x: 2

\*\*Solution:

1. Identify the equivalent expression in the equation and demonstrate multiplying by the common denominator.

\*\*Solution:

1. What is the least common denominator of the equation ?

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\*\* Solution:

1. Ethan can type a report in 15 minutes. When his friend Olivia helps him, it takes them 6 minutes. What is the rational equation that can determine the rate Olivia types the report?

\*\*Solution:

1. Ethan can type a report in 15 minutes. When his friend Olivia helps him, it takes them 6 minutes. What is the rate that Olivia types 1 report?

\*\*Solution: 10 minutes

1. Jake can assemble a bicycle in 20 minutes. When his friend Emma helps him, it takes them 8 minutes. What is the rational equation that can determine the rate Emma assembles the bicycle?

\*\*Solution:

1. Jake can assemble a bicycle in 20 minutes. When his friend Emma helps him, it takes them 8 minutes. What is the rate that Emma assembles 1 bicycle?

\*\*Solution:13.33 minutes

1. Maria can paint a wall in 10 minutes. When her friend Alex helps her, it takes them 4.5 minutes. What is the rational equation that can determine the rate Alex paints the wall?

\*\*Solution:

1. Maria can paint a wall in 10 minutes. When her friend Alex helps her, it takes them 4.5 minutes. What is the rate that Alex paints 1 wall?

\*\*Solution: 8.18 minutes