Use fractions in algebraic contexts







b)
$$\frac{1}{2} + \frac{1}{4} = \frac{3}{4}$$

d)
$$5 - \left| \frac{1}{6} \right| = 4\frac{5}{6}$$

Solve the equations.

a) x + 3 = 5





c) $x - 3 = 5\frac{1}{3}$



1-3 x = |

If s = 2, work out the value of these expressions.

Give your answers as mixed numbers.



Substitute the values g = 4 and h = 3 into the expressions. Give your answers as improper fractions.

a)
$$g + \frac{1}{g} = \boxed{\frac{1}{4}}$$

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What do you notice about the answers?

b)
$$1 + \frac{g}{h} = \frac{7}{3}$$

Which answer was greater? Will this be true for any values of g and h?





Do you agree with Dexter? ______ Talk about it with a partner.

$$h + \frac{1}{h} = \boxed{\frac{10}{3}}$$

$$1 + \frac{h}{g} = \boxed{\frac{7}{4}}$$

$$h - \frac{h}{g} = \boxed{\frac{q}{4}}$$

No values of g and h will ever give a negative answer.















