Name:_____

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Math worksheet on *'Trigonometry - Ratio Manipulation (Level 2)'*. Part of a broader unit on *'Trigonometry Fundamentals - Intro'*

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1 Solve the fraction for 'x' in terms of the variables and reduce.

$$sin = \frac{x}{hyp}$$

a $x = sin \cdot hyp$

b $x = \frac{sin}{hyp}$

c $x = \frac{hyp}{sin}$

2 Solve the fraction for 'x' in terms of the variables and reduce.

$$cos = \frac{x}{hyp}$$

a $x = cos \cdot hyp$

b $x = \frac{cos}{hyp}$

c $x = \frac{hyp}{cos}$

3 Solve the fraction for 'x' in terms of the variables and reduce.

$$sin = \frac{opp}{x}$$

a $x = \frac{opp}{sin}$

b $x = \frac{sin}{opp}$

4 Solve the fraction for 'x' in terms of the variables and reduce.

$$tan = \frac{opp}{x}$$

a $x = \frac{tan}{opp}$

b $x = \frac{opp}{tan}$

c $x = tan \cdot opp$

5 Solve the fraction for 'x' in terms of the variables and reduce.

$$cos = \frac{adj}{x}$$

a $x = \frac{adj}{cos}$

b $x = cos \cdot adj$

c $x = \frac{cos}{adj}$

6 Solve the fraction for 'x' in terms of the variables and reduce.

$$tan = \frac{x}{adj}$$

a $x = \frac{adj}{tan}$

b $x = \frac{tan}{adj}$

c $x = tan \cdot adj$