## SOHCAHTOA WORKSHEET <br> (Sine, cosine and tangent)

## Part I

## Identifying Opposite, Adjacent and Hypotenuse

Answers available at www.mathwarehouse.com/trigonometry/sine-cosine-tangent.html

1. Identify the side that is opposite of $\angle \mathrm{YZX}$
2. Identify the side that is adjacent to $\angle \mathrm{YZX}$
3. Identify the sides that are opposite and adjacent
to $\angle \mathrm{IHU}$.
Opposite Side:
Adjacent Side:_—_

## Part II

Answers @ www.mathwarehouse.com/trigonometry/sine-cosine-tangent-practice.html

1. How long is the side opposite of $\not \subset \mathbf{A C B}$ ?
2. How long is the hypotenuse?
3. What is $\sin (4 \mathrm{ACB})$ ?
4. How long is the side adjacent to ${ }^{\chi} \mathbf{A C B}$ ?

5. What is $\cos \left(\chi_{\mathrm{ACB}}\right)$ ?

| 6. How long is the side opposite of $\Varangle_{1}$ ? |
| :--- |
| 7. How long is the hypotenuse? |
| 8. What is $\sin \left(\Varangle_{1}\right)$ ? |
| 9. How long is the side adjacent to $\Varangle_{1}$ ? |
| 10. What is $\cos \left(\measuredangle_{1}\right)$ ? |
| 11. What is $\cos \left(幺_{2}\right)$ ? |
| 12. What is $\sin \left(幺_{2}\right)$ ? |
| 13. What is $\tan \left(\Varangle_{2}\right)$ ? |

## III. Sine, Cosine, Tangent. Problems

Answers @ www.mathwarehouse.com/trigonometry/sine-cosine-tangent-practice2.html

1. What side is adjacent to $\angle \mathrm{MLN}$ ?
2. What is the hypotenuse?
3. Calculate $\cos (\angle \mathrm{MLN})$ :
4. Calculate $\cos (\angle \mathrm{LMN})$



## More challenging Problems:

8. What is X ?
9. How long is the hypotenuse of this
triangle?
10. What is X ?
11. How long is the side IJ?

IV Using SOHCAHTOA to find a side of a triangle.
Answers Below at www.mathwarehouse.com/trigonometry/sine-cosine-tangent-practice3.html

1) What is $x$ in the triangle on the left?
2) What is the length of $\overline{\mathbf{H I}}$ ?

3. What is Y in the triangle on the left?
4. What is the length of $\overline{\mathbf{N M}}$ ?

5. Use SOHCAHTOA to find the value of $X$.
6. What is another way that you could find the value of $X$ ?

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