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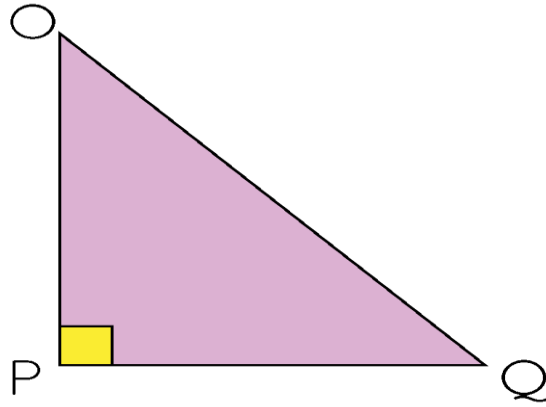
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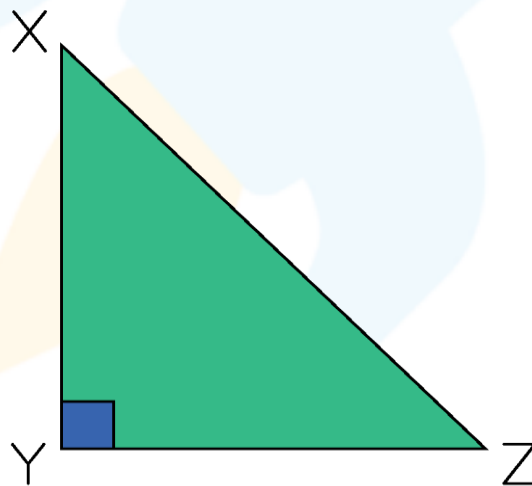
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TRIGONOMETRIC RATIOS WORKSHEETS

1. In a triangle OPQ, right-angled at P, $OP = 3$ inches and angle $A = 45^\circ$. Find $\tan O$,



2. In a triangle XYZ, right-angled at Y, $XY = YZ$. Find: angle X, angle Z.



3. Match the following:

a. - $\sin 89$

b. - $\tan^2 89$

c. - $\tan 45$

d. - $\cos 89$

p- $\sec^2 89 - 1$

q- $\sin 1$

r- $\cos 1$

s- 1

4. $\cos (P + Q) = \cos P + \cos Q$

- a) True
- b) False

5. $\tan 79$ is equals to:

- a) $\cot 11$
- b) $\tan 11$
- c) $\cot 79$
- d) None of these

6. $\sin A = \cos A$ for some values of A

- a) True
- b) False

7. Evaluate: $(9 \tan 45 - 4 \sin 60)$

8. $\sec 5P = \operatorname{cosec} 2P$. Find P

9. Calculate the value of $\frac{(\cos^2 50 + \sin^2 50)}{(\sec^2 65 - \cot^2 25)}$

10. Find the value of $(29 \cos^2 A + 29 \sin^2 A)$

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"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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**ANSWERS**

1.	Tan O=1
2.	Angle A, Angle C $45^{\circ}, 45^{\circ}$
3.	a.-r b.-p c.-s d.-q
4.	b) False
5.	a) $\cot 11$
6.	a) True
7.	5.5
8.	12.9°
9.	1
10.	29