

Geometry Assessment

ACMMG224



Assessment



Navigator



Students



30 Min



Teachers Teaching with Technology™
Professional Development from Texas Instruments

Name _____ Teacher _____ Score _____

Q.1. Which of the following represents the **sine** ratio?

- a) $\frac{opp}{adj}$ b) $\frac{adj}{opp}$ c) $\frac{opp}{hyp}$ d) $\frac{adj}{hyp}$ e) $\frac{hyp}{adj}$

Q.2. Which of the following represents the **cosine** ratio?

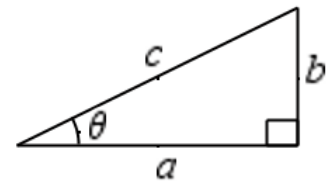
- a) $\frac{opp}{adj}$ b) $\frac{adj}{opp}$ c) $\frac{opp}{hyp}$ d) $\frac{adj}{hyp}$ e) $\frac{hyp}{adj}$

Q.3. Which of the following represents the **tangent** ratio?

- a) $\frac{opp}{adj}$ b) $\frac{adj}{opp}$ c) $\frac{opp}{hyp}$ d) $\frac{adj}{hyp}$ e) $\frac{hyp}{adj}$

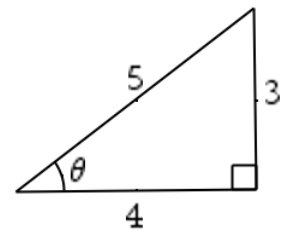
Q.4. Which statement is true for the angle θ in the diagram?

- a) $b = \text{opposite}$ b) $b = \text{adjacent}$ c) $c = \text{adjacent}$
d) $c = \text{opposite}$ e) $a = \text{opposite}$



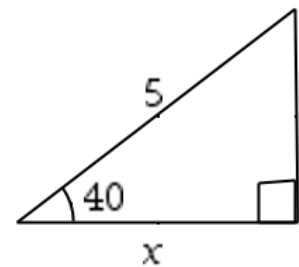
Q.5. Which statement is true for the diagram?

- a) $\sin(\theta) = \frac{3}{4}$ b) $\tan(\theta) = \frac{3}{4}$ c) $\sin(\theta) = \frac{4}{5}$
d) $\sin(\theta) = \frac{4}{3}$ e) $\cos(\theta) = \frac{3}{5}$



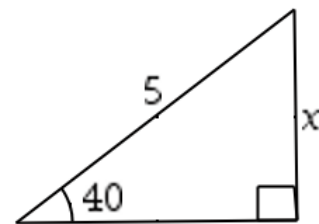
Q.6. Which ratio would be the most suitable to determine the value of x ?

- a) sine b) cosine c) tangent d) $\frac{x}{5} = 40$ e) None of these



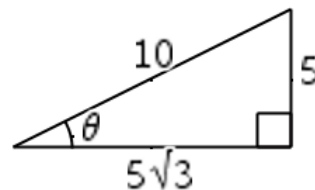
Q.7. Which ratio would be the most suitable to determine the value of x ?

- a) sine b) cosine c) tangent d) $\frac{x}{5} = 40$ e) None of these



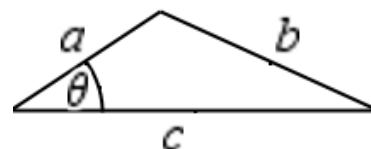
Q.8. Which statement is true for the angle θ in the diagram?

- a) $\sin(\theta) = \frac{\sqrt{3}}{2}$ b) $\tan(\theta) = \frac{\sqrt{3}}{2}$ c) $\cos(\theta) = \frac{1}{2}$
 d) $\tan(\theta) = \frac{1}{2}$ e) $\sin(\theta) = \frac{1}{2}$



Q.9. Which one or more of the following statements are correct?

- a) $\sin(\theta) = \frac{a}{c}$ b) $\tan(\theta) = \frac{b}{a}$ c) $\cos(\theta) = \frac{a}{c}$
 d) $\tan(\theta) = \frac{a}{b}$ e) **None** of these



Q.10. Which statement is true for the diagram?

- a) $\sin(\theta) = \tan(\alpha)$ b) $\tan(\theta) = \cos(\theta)$ c) $\cos(\theta) = \sin(\theta)$
 d) $\sin(\theta) = \cos(\alpha)$ e) **None** of these

Note $\alpha \neq \theta$

