

# Geometry Assessment

ACMMG224  
Teacher Answers



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?

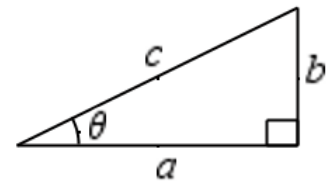
- a)  $\frac{opp}{adj}$       b)  $\frac{adj}{opp}$       c)  $\frac{opp}{hyp}$       d)  $\frac{adj}{hyp}$       e)  $\frac{hyp}{adj}$

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)  $\frac{hyp}{adj}$

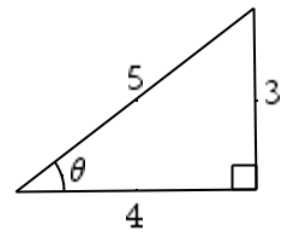
Q.4. Which statement is true for the angle  $\theta$  in the diagram?

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



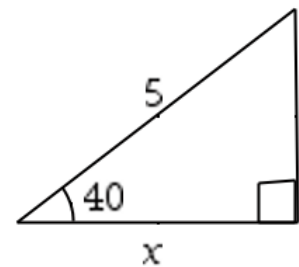
Q.5. Which statement is true for the diagram?

- 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)  $\cos(\theta) = \frac{3}{5}$



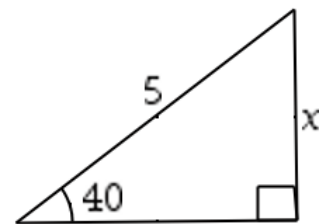
Q.6. Which ratio would be the most suitable to determine the value of  $x$ ?

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



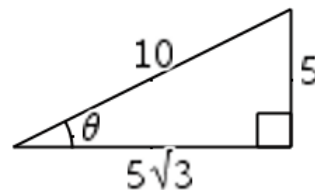
Q.7. Which ratio would be the most suitable to determine the value of  $x$ ?

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



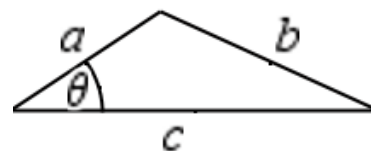
Q.8. Which statement is true for the angle  $\theta$  in the diagram?

- 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  $\alpha \neq \theta$

