## Trigonometry Ratios Assessment

ACMMG223 - Using ratios and similarity

Name:

Score:


Assessment

Student

30 min

Teacher: $\qquad$
Q.1. Which of the following represents the sine ratio?
a)

b) $\frac{a d j}{h y p}$
c) $\frac{o p p}{a d j}$
d) $\frac{h y p}{a d j}$
e) $\frac{a d j}{o p p}$
Q.2. Which of the following represents the cosine ratio?
a) $\frac{o p p}{h y p}$
b)
$\frac{a d j}{h y p}$
c) $\frac{o p p}{a d j}$
d) $\frac{h y p}{a d j}$
e) $\frac{a d j}{o p p}$
Q.3. Which of the following is true for angle $\theta$ ?
a) $\sin (\theta)=\frac{m}{n}$
b) $\sin (\theta)=\frac{p}{n}$
c) $\sin (\theta)=\frac{p}{m}$
d) $\sin (\theta)=\frac{m}{p}$
e) $\sin (\theta)=\frac{n}{p}$
Q.4. Which of the following is true for angle $\theta$ ?
a) $\cos (\theta)=\frac{m}{n}$
b) $\cos (\theta)=\frac{p}{n}$
c) $\cos (\theta)=\frac{p}{m}$
d) $\cos (\theta)=\frac{m}{p}$
e) $\cos (\theta)=\frac{n}{p}$


[^0]Q.5. Which of the following is true for angle $\theta$ ?
a) $\tan (\theta)=\frac{m}{n}$
b) $\quad \tan (\theta)=\frac{n}{p}$
c) $\tan (\theta)=\frac{p}{m}$
d) $\tan (\theta)=\frac{m}{p}$
e) $\tan (\theta)=\frac{n}{m}$

Q.6. Which of the following is true for angle $\theta$ ?
a) $\tan (\theta)=\frac{m}{n}$
b) $\quad \tan (\theta)=\frac{n}{p}$
c) $\tan (\theta)=\frac{p}{m}$
d) $\tan (\theta)=\frac{m}{p}$
e) None of these

Q.7. A right angled triangle has sides $a, b$ and $c$. If $\tan ^{-1}\left(\frac{a}{b}\right)=60^{\circ}$ then the sides lengths from smallest to largest would be:
a) $a, b, c$
b) $b, a, c$
c) $a, c, b$
d) $\quad b, c, a$
e) $c, a, b$
Q.8. For a given right angled triangle: $\sin (\theta)=0.3$. The triangle is then enlarged by a factor of 2 . Which statement is true for the new triangle?
a) $\sin (\theta)=0.15$
b) $\sin (\theta)=0.3$
c) $\sin (\theta)=0.6$
d) $\sin (\theta)=1.2$
e) None of these
Q.9. For a given right angled triangle: $\sin (\theta)=0.3$. The angle $\theta$ is doubled. Which statement is true for the new triangle?
a) $\sin (\theta)=0.15$
b) $\quad \sin (\theta)=0.3$
c) $\sin (\theta)=0.6$
d) $\sin (\theta)=1.2$
e) None of these
Q.10. A right angled triangle has sides $a, b$ and $c$. If $\tan ^{-1}\left(\frac{a}{b}\right)=30^{\circ}$, which of the following would produce the smallest value:
a) $\frac{a}{b}$
b) $\frac{b}{a}$
c)

d) $\frac{b}{c}$
e) $\frac{c}{b}$


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