# Measurement Assessment

ACMMG197
Teacher Answers

Assessment   Navigator   Students   30 Min

T³
**Teachers Teaching with Technology**™
Professional Development from Texas Instruments
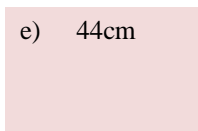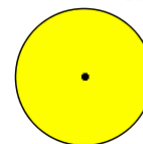
Name _____   Teacher _____ Score _____

Q.1.    The circumference of the circle is closest to:

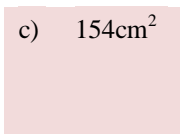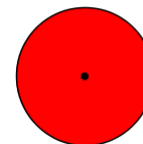a)   7cm        b)   14cm        c)   21cm        d)   22cm        e)   44cm

Radius=7cm

Q.2.    The area of the circle is closest to:

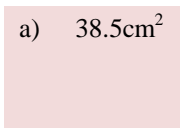a)   44cm$^2$        b)   49cm$^2$        c)   154cm$^2$        d)   1078 cm$^2$        e)   None of these

Radius=7cm

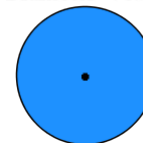Q.3.    The area of the circle is closest to:

a)   38.5cm$^2$        b)   77cm$^2$        c)   154cm$^2$        d)   1078 cm$^2$        e)   None of these
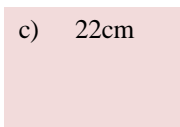
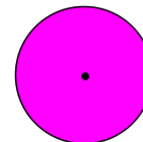Diameter=7cm

Q.4.    The circumference of the circle is closest to:

a)   14cm        b)   21cm        c)   22cm        d)   44cm        e)   154cm
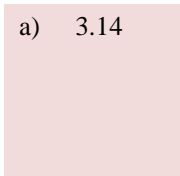
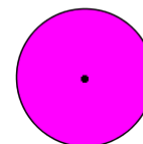Diameter=7cm

Q.5.    The circumference divided by the diameter is closest to:

a)   3.14        b)   6.28        c)   7        d)   14        e)   44
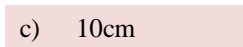
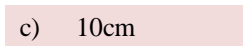Radius=7cm
C=44 cm

Q.6.    The circumference of a circle is 31.4cm. The diameter of the circle is:

a)   3.14cm        b)   5cm        c)   10cm        d)   20cm        e)   314cm

Q.7.    The circle has a circumference of 62.8cm. The radius of the circle is:

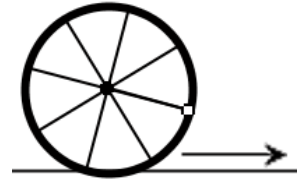a)   3.14cm        b)   5cm        c)   10cm        d)   20cm        e)   40cm

TEXAS INSTRUMENTS

Q.8.    The wheel of diameter 50cm rotates once. How far will it travel?

$C = \pi D$

$C = 3.14 \times 50 cm$

$C = 157.1 cm$



Q.9.    Two cogs '$a$' and '$b$' are connected. Cog '$a$' has radius 5cm. Cog '$b$' has radius 10cm. Each time cog '$b$' rotates once, cog '$a$'...

| a) Does four rotations | b) Does two rotations | c) Does one rotations | d) Does half a rotation | e) None of these |
|---|---|---|---|---|

Q.10.   A car wheel has a diameter of 0.6m. How many times will the wheel rotate as the car travels 1km? (To the nearest rotation)

$C = \pi D$

$C = 1.8850 m$

$Rotations = \dfrac{1000}{1.8850} \approx 531$

TEXAS INSTRUMENTS