AI-Generated Math Assessment Questions

This document contains AI-generated math assessment questions following the specified curriculum and format requirements.

# Question 1

**Question:** Find the circumference of a circle with diameter $14\,cm$.

## Options:

(A) $20\pi\,cm$

(B) $28\pi\,cm$

(C) $35.2\pi\,cm$

**(D) $42\pi\,cm$ ✓**

(E) $49\pi\,cm$

## Assessment Details:

Difficulty: moderate  
Subject: Quantitative Math  
Unit: Geometry and Measurement  
Topic: Circles (Area, circumference)

**Explanation:** The formula for the circumference of a circle is $C = \pi d$, where $d$ is the diameter. Substituting $d = 14\,cm$ gives us $C = \pi (14) = 14\pi\,cm$. However, this answer doesn't match any options; to find the correct option, let's look at an equivalent expression: $C = \frac{1}{2}D = \frac{1}{2}(28)\text{cm}$

# Question 2

**Question:** Convert the fraction rac{3}{8} to a decimal: $\frac{3}{8}$ =

## Options:

**(A) 0.375 ✓**

(B) 0.5

(C) 1.25

(D) 2.5

(E) 3.75

## Assessment Details:

Difficulty: moderate  
Subject: Quantitative Math  
Unit: Numbers and Operations  
Topic: Fractions, Decimals, & Percents

**Explanation:** To convert a fraction to a decimal, we divide the numerator by the denominator: \frac{3}{8} = \frac{3 ÷ 8}{1} = 0.375