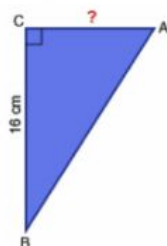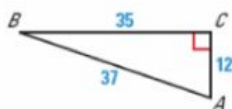## G10. Warming Up Activity 4

Multiple Choice
Identify the choice that best completes the statement or answers the question.

1. Given $\tan B = \dfrac{5}{8}$, **what is the length of side AC?**

   A) 8 cm
   B) 10 cm
   C) 12 cm
   D) 13 cm

2. **Find the correct trigonometric ratios using the given right triangles.**

   A) $\sin A = \dfrac{12}{37}, CosA = \dfrac{35}{37}, TanA = \dfrac{35}{12}$

   B) $\sin A = \dfrac{35}{37}, CosA = \dfrac{12}{37}, TanA = \dfrac{35}{12}$

   C) $\sin A = \dfrac{12}{37}, CosA = \dfrac{35}{12}, TanA = \dfrac{35}{37}$

   D) $\sin A = \dfrac{35}{37}, CosA = \dfrac{35}{12}, TanA = \dfrac{12}{37}$

3. **sin θ = 0.8**
   Select possible values for θ, rounded to the nearest degree.

   A) 172°
   B) 53°
   C) 147°
   D) 37°

4. **Find the correct bearing of the following diagram:**
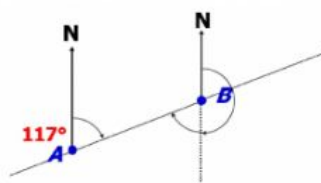
   A) A from B = 243 ; B from A = 63
   B) A from B = 63 ; B from A = 243
   C) A from B = 180 ; B from A = 360
   D) A from B = 222 ; B from A = 42

5. **Calculate φ, the angle of elevation of the balloon, to the nearest degree.**
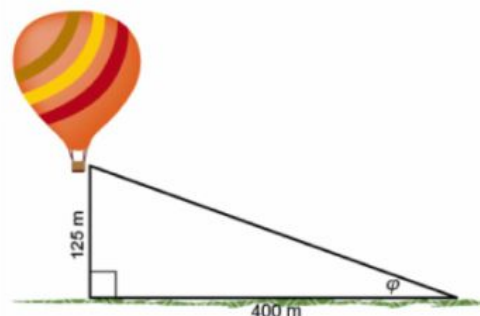
   (You are allowed to use calculator to solve this question)

   A) 17°
   B) 18°
   C) 71°
   D) 81°

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