

ERRATA for
PE Civil Practice Exam (all modules)
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Errata posted 1-15-2016

Revisions are shown in red.

Question 134:

Question 134 should read as follows:

Sample concrete cylinders that are 6 inches in diameter and 12 inches high are tested to determine the compressive strength of the concrete f'_c . The test results are as follows:

| Sample | Axial Compressive Failure Load (lb) |
|--------|-------------------------------------|
| 1 | 65,447 |
| 2 | 63,617 |
| 3 | 69,139 |

Based on the above results, the average 28-day compressive strength (psi) is most nearly:

- (A) 615
- (B) 2,250
- (C) 2,340
- (D) 2,470

Solution 134:

Solution 134 should read as follows:

$$\text{Area} = \pi d^2/4 = 28 \text{ in}^2$$

Compressive stress = axial load/area

$$\text{Sample 1} \quad f'_c = \frac{65,447}{28} = 2,313 \text{ psi}$$

$$\text{Sample 2} \quad f'_c = \frac{63,617}{28} = 2,248 \text{ psi}$$

$$\text{Sample 3} \quad f'_c = \frac{69,139}{28} = 2,469 \text{ psi}$$

$$\text{Average} = \frac{(2,313 + 2,248 + 2,469)}{3} = 2,343 \text{ psi}$$

THE CORRECT ANSWER IS: (C)

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Question 129:

An interstate highway has the following traffic count data for a day in each month as shown below:

| | |
|--------------|---------------|
| Jan. | 63,500 |
| Feb. | 62,100 |
| Mar. | 64,400 |
| Apr. | 64,900 |
| May | 75,800 |
| June | 77,300 |
| July | 78,950 |
| Aug. | 77,200 |
| Sept. | 70,050 |
| Oct. | 69,000 |
| Nov. | 66,000 |
| Dec. | <u>64,000</u> |
| Annual Total | 833,200 |

To determine the seasonal average daily traffic volume for June through August, the seasonal factor that would be multiplied by the average daily traffic volume would be most nearly:

- (A) 0.28
- (B) 0.89
- (C) 1.02
- (D) 1.12

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Solution 106:

Reference: Shapiro, Shapiro, and Shapiro, *Cranes and Derricks*, 3rd ed., 2000, p. 244.

$$\tan(x) = \frac{40}{30} \quad x = 53.13^\circ$$

$$\cos(53.13^\circ) \times 100 \text{ ft} = 60 \text{ ft}$$

$$60 \text{ ft} - 35 \text{ ft} = 25 \text{ ft}$$

THE CORRECT ANSWER IS: (B)

