

WorkKeys – Sample Items

Level 3 Applied Mathematics

Sample Item

In your job as a cashier, a customer gives you a \$20 bill to pay for a can of coffee that costs \$3.84. How much change should you give back?

- A. \$15.26
- B. \$16.16
- C. \$16.26
- D. \$16.84
- E. \$17.16

Why this is a Level 3 item:

- Examinees must perform a single subtraction operation.
- Numbers are presented in the logical order ($\$20 - \3.84).
- Number of dollars must be converted to a decimal (dollars and cents: \$20.00).

Level 4 Applied Mathematics

Sample Item

Over the last 5 days, you made the following number of sales calls: 8, 7, 9, 5, and 7. On the average, how many calls did you make each day?

- A. 5.8
- B. 7.0
- C. 7.2
- D. 9.0
- E. 36.0

Why this is a Level 4 item:

- There is more than one step of logic and calculation.
- Examinees must divide using positive numbers.
- Examinees must figure out averages.

Level 5 Applied Mathematics

Sample Item

Quik Call charges 18¢ per minute for long-distance calls. Econo Phone totals your phone usage each month and rounds the number of minutes up to the nearest 15 minutes. It then charges \$7.90 per hour of phone usage, dividing this charge into 15-minute segments if you used less than a full hour. If your office makes 5 hours 3 minutes worth of calls this month using the company with the lower price, how much will these calls cost?

- A. \$39.50
- B. \$41.48
- C. \$41.87
- D. \$54.00
- E. \$54.54

Why this is a Level 5 item:

- There are several steps of logic and calculation.
- Examinees must perform calculations using mixed numbers.
- Examinees must compare their answers with two sets of calculations and choose the "best deal."

Level 6 Applied Mathematics

Sample Item

You are preparing to tile the floor of a rectangular room that is $15\frac{1}{2}$ feet by $18\frac{1}{2}$ feet in size. The tiles you plan to use are square, measuring 12 inches on each side, and are sold in boxes that contain enough tile to cover 25 square feet. How many boxes of tiles must you order to complete the job?

- A. 11
- B. 12
- C. 34
- D. 59
- E. 287

Why this is a Level 6 item:

- Examinees must do multiple steps of logic, calculations or conversion.
- Examinees must use mixed numbers.
- Examinees must eliminate unnecessary information.
- Examinees must find the area of a basic shape and use the result in further calculations.

Level 7 Applied Mathematics Test

Sample Item

The farm where you just started working has a vertical cylindrical oil tank that is 2.5 feet across on the inside. The depth of the oil in the tank is 2 feet. If 1 cubic foot of space holds 7.48 gallons, about how many gallons of oil are left in the tank?

- A. 37
- B. 59
- C. 73
- D. 230
- E. 294

Why this is a Level 7 item:

- There are multiple steps of calculation.
- Examinees must look up and use the formula for the volume of a cylinder.
- Examinees must convert from cubic feet to gallons.