

## Assessment I

- 1** Rosella is rolling a numbered cube with the numbers 1 through 6 on it. She rolls the cube twice. What is the probability that the two rolls will have the sum of 10?
- Ⓐ  $1/36$
  - Ⓑ  $1/12$
  - Ⓒ  $1/10$
  - Ⓓ  $1/9$
- 2** Twenty students took a math test. The upper quartile value of the test scores is the median of the
- Ⓐ top four scores.
  - Ⓑ top five scores.
  - Ⓒ top ten scores.
  - Ⓓ middle five scores.
- 3** At a recent school play, 504 of the 840 seats were filled. What percent of the seats were empty?
- Ⓐ 33.6%
  - Ⓑ 40%
  - Ⓒ 50.4%
  - Ⓓ 60%

**4** Between 6:00 A.M. and noon, the temperature went from 45 to 90 degrees. By what percentage did the temperature increase between 6:00 A.M. and noon?

- Ⓐ 45%
- Ⓑ 50%
- Ⓒ 55%
- Ⓓ 100%

**5** Mr. Yee invested \$2,000 in a savings account that pays an annual interest rate of 4% compounded twice a year. If Mr. Yee does not deposit or withdraw any money, how much will he have in the bank after one year?

- Ⓐ \$2,080.00
- Ⓑ \$2,080.80
- Ⓒ \$2,160.00
- Ⓓ \$2,163.20

**6**  $3^2 \cdot 3^{-3} =$

- Ⓐ -3
- Ⓑ  $1/3^6$
- Ⓒ  $1/3$
- Ⓓ 3

**7** Which of the following can be used to compute  $3/4 + 5/6$ ?

- Ⓐ  $3 + 5/4 + 6$
- Ⓑ  $3 \cdot 3/4 \cdot 3 + 5 \cdot 2/6 \cdot 2$
- Ⓒ  $3/4 \cdot 3 + 5/6 \cdot 2$
- Ⓓ  $3/4 \cdot 6 + 5/4 \cdot 6$

**8** Simplify the expression shown below.

$$2x^{-3}$$

- Ⓐ  $8/x^3$
- Ⓑ  $(2x)^{-1}(2x)^{-1}(2x)^{-1}$
- Ⓒ  $2/x^3$
- Ⓓ  $1/(2x)^3$

**9** Before each game, the Harbor High Mudcats sell programs for \$1.00 per program. To print the programs, the printer charges \$60 plus \$0.20 per program. How many programs does the team have to sell to make a profit of \$200?

- Ⓐ 250 programs
- Ⓑ 300 programs
- Ⓒ 325 programs
- Ⓓ 350 programs

**10** A person drove for 6 hours at an average speed of 45 miles per hour (mph) and for 9 hours at an average speed of 55 mph. Find the average speed for the entire trip?

- Ⓐ 50 mph
- Ⓑ 51 mph
- Ⓒ 52 mph
- Ⓓ 53 mph

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