TAKS Practice

OBJECTIVE 1

Read each question and choose the correct answer.

(8.1)(A) **Number, operation, and quantitative reasoning** The student understands that different forms of numbers are appropriate for different situations. The student is expected to compare and order rational numbers in various forms, including integers, percents, and positive and negative fractions and decimals.

1 Which set of numbers is in order from least to greatest?

A $0.003, 3\%, \frac{3}{10}, 3, 10^3$

B $3, \frac{3}{10}, 0.003, \frac{3}{10}, 3\%$
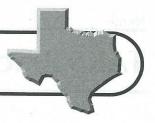
C $\frac{3}{10}, 3\%, 0.003, 3, 10^3$

D $3, 10^3, 3\%, 0.003, \frac{3}{10}$

2 Which of the following indicates the greatest weight?

F $\frac{2}{5}$ tons

G 0.35 tons

H $-\frac{1}{4}$ ton

J 0.55 ton

3 Which best describes the value of $(4.5)^2$?

A Greater than 4 and less than 9

B Greater than 9 and less than 16

C Greater than 16 and less than 25

D Greater than 25

4 Annabel was practicing her free throws. She made between $\frac{1}{2}$ and $\frac{3}{4}$ of her shots. Which percentage has an equivalent fraction value between $\frac{1}{2}$ and $\frac{3}{4}$?

F 6.5%

G 15%

H 60%

J 80%

5 Which of the following is a true statement?

A $\frac{3}{5} < 0.60 < 6\%$

B $\frac{3}{5} = 0.06 = 6\%$

C $\frac{3}{5} > 0.60 > 60\%$

D $\frac{3}{5} = 0.60 = 60\%$

(8.1)(B) **Number, operation, and quantitative reasoning** The student understands that different forms of numbers are appropriate for different situations. The student is expected to select and use appropriate forms of rational numbers to solve real-life problems, including those involving proportional relationships.

1 Bacteria grown in a lab double in population every 30 minutes. If 100 bacteria are in a Petri dish at 2:00 P.M., how many bacteria will be in the Petri dish at 4:00 P.M.?

A 400

B 800

C 1,600

D 3,200