

4 Standardized Test Practice

- Which percent is equivalent to $\frac{4}{5}$?
A. 20% C. 80%
B. 45% D. 125%
- Your friend evaluated an expression using $k = 0.5$ and $p = 1.6$ and got an answer of 12. Which expression did your friend evaluate?
F. $5p + 8k$ H. $0.5k + 1.6p$
G. $8p + 5k$ I. $0.8k + 0.5p$
- What is 15% of 36?



- A pair of running shoes is on sale for 25% off the original price.



Which price is closest to the sale price of the running shoes?

- The expression below can be used to find the temperature in degrees Celsius when given F , the temperature in degrees Fahrenheit.

$$\frac{5}{9}(F - 32)$$

What is the temperature in degrees Celsius, to the nearest degree, when the temperature in degrees Fahrenheit is 90° ?

- F. 18° H. 58°
G. 32° I. 104°

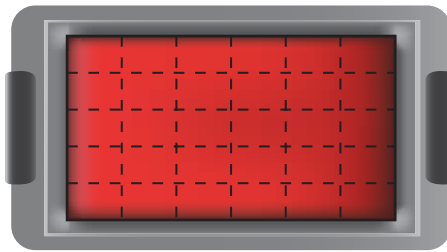
Test-Taking Strategy
Read Question Before Answering

Which amount of increase in your catnip allowance do you NOT want?
(A) 50% (B) 75% (C) 10% (D) 98%

I get it. C for catnip.

"Be sure to read the question before choosing your answer or you could lose big time."

6. For a party, you made a gelatin dessert in a rectangular pan and cut the dessert into equal-sized pieces as shown below.



The dessert consisted of seven layers of equal height. Each height was a different flavor, as shown below by a side view of the pan.



Your guests ate $\frac{5}{6}$ of the pieces of the dessert. Cherry gelatin was what fraction of the dessert eaten by your guests?

- A. $\frac{37}{42}$ C. $\frac{5}{13}$
- B. $\frac{5}{42}$ D. $\frac{1}{7}$
7. What property was used to simplify the expression?

$$\begin{aligned}
 12 \times 47 &= 12 \times (40 + 7) \\
 &= 12 \times 40 + 12 \times 7 \\
 &= 480 + 84 \\
 &= 564
 \end{aligned}$$

- F. Distributive Property
- G. Identity Property of Addition
- H. Commutative Property of Addition
- I. Associative Property of Multiplication

8. Which list of numbers is in order from least to greatest?

A. $0.8, \frac{5}{8}, 70\%, 0.09$

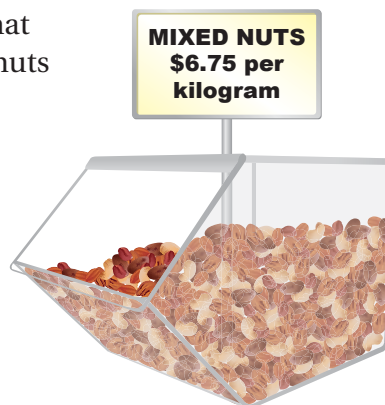
C. $\frac{5}{8}, 70\%, 0.8, 0.09$

B. $0.09, \frac{5}{8}, 0.8, 70\%$

D. $0.09, \frac{5}{8}, 70\%, 0.8$



9. You bought 0.8 kilogram of mixed nuts. What was the total cost, in dollars, of the mixed nuts that you bought?



10. Which fraction is *not* equivalent to 25%?

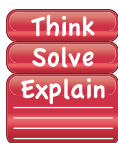
F. $\frac{1}{4}$

H. $\frac{5}{20}$

G. $\frac{2}{5}$

I. $\frac{25}{100}$

11. You are comparing the costs of a certain model of ladder at a hardware store and at an online store.



Part A What is the cost of the ladder at each of the stores? Show your work and explain your reasoning.

Part B Suppose that the hardware store is offering 10% off the price of the ladder and that the online store is offering free shipping & handling. Which store offers the better final cost and by how much? Show your work and explain your reasoning.