2 TAKS PRACTICE

PRACTICE FOR TAKS OBJECTIVE 9

1. Brad is choosing between two brands of graph paper. A pad of 100 sheets of Brand A costs $1.80, and a pad of 100 sheets of Brand B costs $1.53. What percent of the cost of a pad of Brand A did Brad save by buying a pad of Brand B?

   A 15%

   B 27%

   C 73%

   D 85%

2. A quality control engineer tested a sample of 130 batteries from a batch of 6500 batteries. The engineer found 3 defective batteries in the sample. About how many defective batteries can the engineer expect in the batch?

   F 130

   G 150

   H 195

   J 325

3. Maria has a 4 inch by 6 inch photo. She enlarged the dimensions of the photo by 250% to make a second photo. Then she enlarged the dimensions of the second photo by 250% to make a third photo. What are the dimensions of the third photo?

   A 10 in. by 15 in.

   B 22.5 in. by 35 in.

   C 25 in. by 37.5 in.

   D 30 in. by 52.5 in.

4. A math competition requires that at least 2 of every 5 team members be a freshman or sophomore. A school's team has 20 members. Which of the following is a possible number of team members who are freshmen or sophomores?

   F 2

   G 3

   H 6

   J 8

5. The number of women elected to the U.S. House of Representatives has increased nearly every election since 1985. In the 99th Congress beginning in 1985, there were 22 female representatives. In the 109th Congress beginning in 2005, there were 65 female representatives. What was the average rate of change in the number of female members per Congress for the 10 Congresses since 1985?

   A -2.15 representatives per session

   B 2.15 representatives per session

   C 4.3 representatives per session

   D 43 representatives per session

6. Rick earns $7 per hour of work plus a 5% commission on his total sales. How much must his total sales be in order for him to earn exactly $115 in 10 hours of work?

   F $45

   G $330

   H $900

   J $2300

MIXED TAKS PRACTICE

7. What is the solution of the equation $2(m - 3) + 3m = 9m + 12$? *TAKS Obj. 2*

   A $-\dfrac{9}{2}$

   B -3

   C $\dfrac{6}{5}$

   D $\dfrac{9}{2}$

8. The graph of which equation passes through the point $(1, -3)$ and is perpendicular to the line $x + y = 10$? *TAKS Obj. 7*

   F $x + y = -2$

   G $x - y = -2$

   H $x + y = 4$

   J $x - y = 4$