



# MIXED REVIEW FOR TEKS

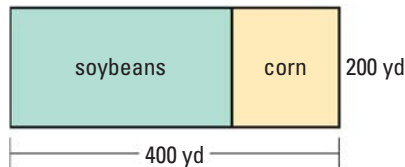


**TAKS PRACTICE**  
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## Lessons 2.4–2.7

### MULTIPLE CHOICE

1. **FARMING** A farmer is planting corn and soybeans in the rectangular field shown. The farmer spends \$.09 per square yard to plant corn and \$.07 per square yard to plant soybeans. How much money will the farmer spend on planting if the soybean section has a length of 300 yards? **TEKS 8.7.B**



- (A) \$6000      (B) \$6800  
(C) \$10,400      (D) \$11,000
2. **PENTATHLON** The modern pentathlon consists of 5 events, including a distance run. For the men's run, each athlete starts with 1000 points and earns 2 points for every 0.5 second under a finishing time of 10 minutes and  $-2$  points for every 0.5 second over a finishing time of 10 minutes. If an athlete finishes the run in 10 minutes 34 seconds, how many points does he earn? **TEKS a.1**
- (F) 864 points      (G) 932 points  
(H) 1068 points      (J) 1136 points
3. **BASEBALL** The table shows the average cost of three items at a baseball stadium in 2002 and 2004. What is the change in the average amount spent from 2002 to 2004 if 2 of each item are bought? **TEKS a.6**

Item	Cost in 2002	Cost in 2004
Ticket	\$20.44	\$17.90
Soda	\$2.75	\$2.00
Hot dog	\$2.75	\$2.75

- (A) \$3.29      (B) \$5.08  
(C) \$6.58      (D) \$7.88

4. **STORAGE BINS** Your friend is comparing two 6-sided cubic storage bins. The yellow bin has a surface area of 96 square feet and costs \$23.04. The blue bin has a surface area of 73.5 square feet and costs \$17.15. Which bin costs less per cubic foot and by approximately how much less than the other bin? **TEKS 8.7.B**

- (F) The yellow bin, by  $$.04/\text{ft}^3$   
(G) The yellow bin, by  $$.01/\text{ft}^3$   
(H) The blue bin, by  $$.04/\text{ft}^3$   
(J) The blue bin, by  $$.01/\text{ft}^3$

5. **TROPOSPHERE** The troposphere is the lowest layer of Earth's atmosphere. The temperature at Earth's surface is approximately  $15^\circ\text{C}$  and changes by about  $-0.0065^\circ\text{C}$  for every meter of increase in elevation. What is the approximate temperature of the troposphere at 10,000 meters above the surface? **TEKS a.4**

- (A)  $-65^\circ\text{C}$       (B)  $-50^\circ\text{C}$   
(C)  $-6.5^\circ\text{C}$       (D)  $8.5^\circ\text{C}$

6. **AQUARIUM** A designer is creating an aquarium in the shape of a rectangular prism with a square base. The aquarium will have a height of 35 centimeters and a volume of 17,500 cubic centimeters. Which of the following is the best approximation of the side length of the base? **TEKS a.1**

- (F) 20 cm      (G) 22 cm  
(H) 23 cm      (J) 25 cm

### GRIDDED ANSWER 0 1 2 3 4 5 6 7 8 9

7. **RUGS** The table shows the areas of two square rugs. How many inches longer is the side length of the sorrel rug than the side length of the shaw rug? **TEKS a.1**

Type of rug	Area ( $\text{in.}^2$ )
Sorrel rug	8281
Shaw rug	7744