



MIXED REVIEW FOR TEKS

Lessons 3.1–3.4

MULTIPLE CHOICE

1. **JEWELRY** Melinda is making jewelry to sell at a craft fair. The cost of materials is \$3.50 to make one necklace and \$2.50 to make one bracelet. She sells the necklaces for \$9.00 each and the bracelets for \$7.50 each. She spends a total of \$121 on materials and sells all of the jewelry for a total of \$324. Which system of equations represents the situation, where x is the number of necklaces and y is the number of bracelets?

- (A) $2.5x - 3.5y = 121$
 $7.5x - 9y = 324$
- (B) $2.5x + 3.5y = 324$
 $9x + 7.5y = 121$
- (C) $3.5x - 2.5y = 324$
 $7.5x + 9y = 121$
- (D) $3.5x + 2.5y = 121$
 $9x + 7.5y = 324$

2. **GIFT BASKETS** Mike is making gift baskets. Each basket will contain three different kinds of candles: tapers, pillars, and jar candles. Tapers cost \$1 each, pillars cost \$4 each, and jar candles cost \$6 each. Mike puts 8 candles costing a total of \$24 in each basket, and he includes as many tapers as pillars and jar candles combined. How many tapers are in a basket?

- (F) 1 tapers
- (G) 2 tapers
- (H) 4 tapers
- (J) 5 tapers

3. **BASEBALL** From 1999 through 2002, the average annual salary s (in thousands of dollars) of players on two Major League Baseball teams can be modeled by the equations below, where t is the number of years since 1990.

Florida Marlins: $s = 320t - 2300$

Kansas City Royals: $s = 440t - 3500$

In what year were the average annual salaries of the two baseball teams equal?

- (A) 1999 (B) 2000
- (C) 2001 (D) 2002

4. **RESTAURANT SEATING** A restaurant has 20 tables. Each table can seat either 4 people or 6 people. The restaurant can seat a total of 90 people. How many 6 seat tables does the restaurant have?

- (F) 1 table (G) 5 tables
- (H) 7 tables (J) 15 tables



5. **BUSINESS** A store orders rocking chairs, hand paints them, and sells the chairs for a profit. A small chair costs the store \$51 and sells for \$80. A large chair costs the store \$70 and sells for \$110. The store wants to pay no more than \$2000 for its next order of chairs and wants to sell them all for at least \$2750. What is a possible combination of small and large rocking chairs that the store can buy and sell?

TEKS 2A.3.B

- (A) 10 small chairs and 25 large chairs
- (B) 12 small chairs and 20 large chairs
- (C) 15 small chairs and 20 large chairs
- (D) 24 small chairs and 8 large chairs

GRIDDED ANSWER

6. **SCHOOL OUTING** A school is planning a 5 hour outing at a community park. The park rents bicycles for \$8 per hour and in-line skates for \$6 per hour. The total budget per student is \$34. A student bikes and skates the entire time and uses all of the money budgeted. How many hours does the student spend in-line skating?

TEKS 2A.3.B

7. **SNACK BOOTH** At a snack booth, one soda, one pretzel, and two hot dogs cost \$7; two sodas, one pretzel, and two hot dogs cost \$8; and one soda and four hot dogs cost \$10. What is the price (in dollars) of one hot dog?

TEKS 2A.3.B