



MIXED REVIEW FOR TEKS



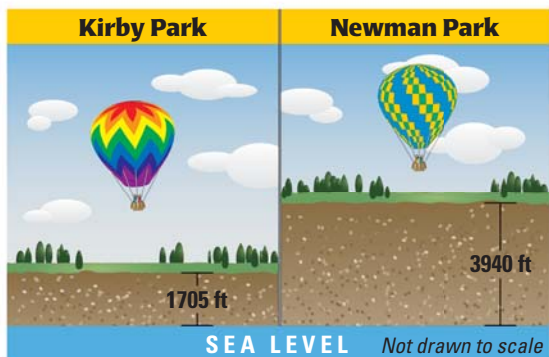
TAKS PRACTICE

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Lessons 7.1–7.4

MULTIPLE CHOICE

1. **LEMONADE** You have \$35 to spend on lemons and sugar to make lemonade for your lemonade stand. Lemons cost \$.40 each, and sugar costs \$1 per pound. You need to buy 1 pound of sugar for every 10 lemons you buy. What is the greatest number of lemons and pounds of sugar that you can buy for your lemonade stand? **TEKS A.8.A**
- (A) 3 lemons, 3 pounds of sugar
 (B) 28 lemons, 7 pounds of sugar
 (C) 50 lemons, 5 pounds of sugar
 (D) 70 lemons, 7 pounds of sugar
2. **HOT AIR BALLOON** A hot air balloon is launched at Kirby Park, and it ascends at a rate of 7200 feet per hour. At the same time, a second hot air balloon is launched at Newman Park, and it ascends at a rate of 4000 feet per hour. The diagram shows the altitude of each park. Which statement describes the relationship between the heights of the two balloons? **TEKS A.8.A**



- (F) The balloon launched at Newman Park will always be higher.
 (G) After one hour, the balloon launched at Kirby Park will be higher than the balloon launched at Newman Park.
 (H) After 30 minutes, the balloon launched at Kirby Park will be higher than the balloon launched at Newman Park.
 (J) The relationship cannot be determined.

3. **HELICOPTER** Flying into the wind, a helicopter takes 15 minutes to travel 15 kilometers. The return flight takes 12 minutes. If the wind speed and direction remain constant during the trip, which system of equations can be used to represent the situation? **TEKS A.8.A**

- (A) $15x = y$
 $12x = y - 3$
- (B) $x + y = 15$
 $x - y = 12$
- (C) $x + y = 60$
 $x - y = 75$
- (D) $x + y = 75$
 $x - y = 60$

4. **CHEMISTRY** A chemist needs 500 milliliters of a solution that is 20% acid and 80% water. She combines x milliliters of a 10% acid and 90% water mix and y milliliters of a 30% acid and 70% water mix. Find the values of x and y . **TEKS A.8.A**

- (F) $x = 100$
 $y = 400$
- (G) $x = 225$
 $y = 275$
- (H) $x = 250$
 $y = 250$
- (J) $x = 350$
 $y = 150$

GRIDDED ANSWER

5. **DELI** At a deli, a customer pays a total of \$9.70 for 1.8 pounds of potato salad and 1.4 pounds of coleslaw. Another customer pays a total of \$6.55 for 1 pound of potato salad and 1.2 pounds of coleslaw. How much (in dollars) do 2 pounds of potato salad and 2 pounds of coleslaw cost? **TEKS A.8.A**

6. **COMPUTERS** Two customers each buy a computer from a salesperson one day. Each customer arranges a payment plan. The graph shows the amount y (in dollars) paid for the computers after x months. After how many months will each customer have paid the same amount? **TEKS A.8.B**

