



MIXED REVIEW FOR TEKS



TAKS PRACTICE

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Lessons 2.1–2.4

MULTIPLE CHOICE

1. **WEBSITES** From January through June, the number of visitors to a news website increased by about 1200 per month. In January, there were 50,000 visitors to the website. Which equation shows the number of visitors v as a function of the number of months t since January? **TEKS a.3**

- (A) $v = 50,000 - 1200t$
- (B) $v = 50,000 + 1200t$
- (C) $v = 1200 - 50,000t$
- (D) $v = 1200 + 50,000t$

2. **SLOPE** What is the slope of a line parallel to the line $\frac{1}{4}y - 3x = 5$? **TEKS a.5**

- (F) -3
- (G) $-\frac{3}{4}$
- (H) $\frac{1}{4}$
- (J) 12

3. **PARALLEL LINES** Which equation represents a line that is parallel to the line $x + 3y = 12$ and contains no points in Quadrant I? **TEKS a.5**

- (A) $y = -\frac{1}{3}x - 4$
- (B) $y = -\frac{1}{3}x + 8$
- (C) $y = -3x - 4$
- (D) $y = 3x + 4$

4. **POPULATION** The official population of Baton Rouge, Louisiana, was 219,478 in 1990 and 227,818 in 2000. What is the average rate of change in the population from 1990 to 2000? **TEKS a.5**

- (F) -8340 people per year
- (G) -834 people per year
- (H) 834 people per year
- (J) 8340 people per year

5. **FOOTBALL** The costs of general admission and student tickets to a high school football game are shown below. Ticket sales for one game totaled \$11,200. Which equation gives the possible numbers of general admission tickets g and student tickets s that were sold? **TEKS a.3**



- (A) $11,200 = 4g - 7s$
- (B) $11,200 = 4g + 7s$
- (C) $11,200 = 7g - 4s$
- (D) $11,200 = 7g + 4s$

6. **PHOTOGRAPHY** Your digital camera has a 512 megabyte memory card. You take pictures at two resolutions, a low resolution requiring 4 megabytes of memory per image and a high resolution requiring 8 megabytes of memory per image. Which equation gives the possible numbers of high resolution photos x and low resolution photos y you can take? **TEKS a.3**

- (F) $8x + 4y = 512$
- (G) $4x + 8y = 512$
- (H) $8x - 4y = 512$
- (J) $4x - 8y = 512$

GRIDDED ANSWER

7. **SLOPE** What is the slope of a line perpendicular to the line shown? Round your answer to the nearest hundredth. **TEKS a.5**

