



MIXED REVIEW FOR TEKS



TAKS PRACTICE

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Lessons 3.5–3.8

MULTIPLE CHOICE

1. **FLOOR PLANS** The dimensions of a rectangular room on a floor plan are 6 inches by 8 inches. Which of the following could be the actual dimensions of the room? **TEKS a.1**

- (A) 4 ft by 6 ft (B) 8 ft by 12 ft
- (C) 9 ft by 12 ft (D) 12 ft by 18 ft

2. **DRAMA CLUB** The ratio of male students to female students in the drama club at a high school is 3 : 5. If there are 40 students in the club, how many are male? **TEKS a.1**

- (F) 12 (G) 15 (H) 24 (J) 28

3. **SPORTS** The table shows the results of a survey in which students in a school were asked to name their favorite sport to watch on TV. If there are 1209 students in the school, predict how many students would name baseball as their favorite sport to watch on TV. **TEKS a.1**

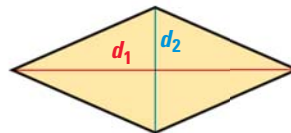
Sport	Students
Baseball	7
Basketball	6
Football	10
Other	8

- (A) 226 students (B) 234 students
- (C) 273 students (D) 353 students

4. **SCIENCE** In biology, the surface-area-to-volume quotient Q of a single spherical cell is given by the formula $Q = \frac{3}{r}$ where r is the radius of the cell. Suppose a biologist needs to calculate the diameter d of a cell based on the value of Q . Given that $d = 2r$, which formula could the biologist use to find d ? **TEKS A.4.A**

- (F) $d = \frac{6}{r}$ (G) $d = 2\left(\frac{3}{Q}\right)$
- (H) $d = 2Q$ (J) $d = \frac{3}{2r}$

5. **GEOMETRY** The area A of a rhombus is given by the formula $A = \frac{1}{2}d_1d_2$ where d_1 and d_2 are the lengths of the diagonals. Suppose you need to find the value of d_1 for different values of d_2 and A . Which of the following equations could you use? **TEKS A.4.A**



- (A) $d_1 = A\left(\frac{d_2}{2}\right)$
- (B) $d_1 = \frac{2A}{d_2}$
- (C) $d_1 = \frac{A}{2d_2}$
- (D) $2A = d_1d_2$

6. **REAL ESTATE** When a real estate agent sells a house, the agent receives 6% of the sale price as a commission. A house is sold for \$208,000. How much commission does the agent receive? **TEKS a.1**

- (F) \$1,248 (G) \$12,480
- (H) \$124,800 (J) Not here

7. **TRAVEL** During a recent trip, your car used 7 gallons of gasoline to travel 154 miles. If gasoline costs \$2 per gallon, how much should you budget for gasoline for a 770 mile car trip? **TEKS a.6**

- (A) \$35 (B) \$45
- (C) \$53 (D) \$70

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

8. **AMUSEMENT PARK** Next year, tickets to an amusement park are going to increase by 5%. This year, the price is \$25. How much will a ticket cost after the increase? **TEKS a.1**

9. **BASKETBALL** A basketball player made 60% of her free throw attempts last season. If she made 84 free throws, how many free throws did she attempt? **TEKS a.1**

