

**TAKS 2009 Released Items for TEKS Student Expectations: 8.2D and 8.3B**

---

8.3B The student identifies proportional or non-proportional linear relationships in problem situations and solves problems. The student is expected to estimate and find solutions to application problems involving percents and other proportional relationships such as similarity and rates

15 Gabby can assemble 7 music books in 4 minutes. At this rate, how many music books can she assemble in 2 hours?

- A 14
- B 105
- C 69
- D 210

25 In July 2005 the United States imported approximately 10.3 million barrels of oil per day. Canada supplied about 16% of the imported oil. Which of these is closest to the number of barrels of oil the United States imported from Canada each day?

- A 5.7 million
- B 1.6 million
- C 2.1 million
- D 0.2 million

8.2D The student selects and uses appropriate operations to solve problems and justify solutions. The student is expected to use multiplication by a constant factor (unit rate) to represent proportional relationships.

- 41 The cars in a parade are passing Marisol at a rate of 2 cars per minute. If it takes 18 minutes for all the cars to pass by Marisol, which equation can she use to determine  $c$ , the number of cars in the parade?

A  $c = \frac{18}{2}$

B  $c = 18\left(\frac{60}{2}\right)$

C  $c = 2\left(\frac{18}{60}\right)$

D  $c = 2(18)$