

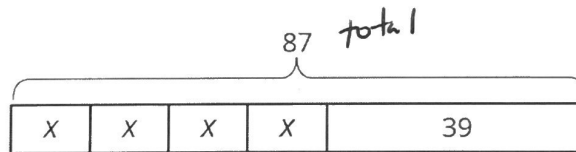
Lesson 2: Practice Problems

1. The table shows the number of apples and the total weight of the apples.

number of apples	weight of apples (grams)
2	511
5	1200
8	2016

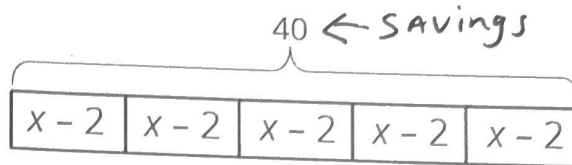
Estimate the weight of 6 apples.

2. Select all stories that the tape diagram can represent.



- A. There are 87 children and 39 adults at a show. The seating in the theater is split into 4 equal sections.
- B. There are 87 first graders in after-care. After 39 students are picked up, the teacher put the remaining students into 4 groups for an activity.
- C. Lin buys a pack of 87 pencils. She gives 39 to her teacher and shared the remaining pencils between herself and 3 friends.
- D. Andre buys 4 packs of paper clips with 39 paper clips in each. Then he gives 87 paper clips to his teacher.
- E. Diego's family spends \$87 on 4 tickets to the fair and a \$39 dinner.

3. Andre wants to save \$40 to buy a gift for his dad. Andre's neighbor will pay him weekly to mow the lawn, but Andre always gives a \$2 donation to the food bank in weeks when he earns money. Andre calculates that it will take him 5 weeks to earn the money for his dad's gift. He draws a tape diagram to represent the situation.



- a. Explain how the parts of the tape diagram represent the story.

5 boxes is 5 weeks, x is \$ mowing, -2 donation

- b. How much does Andre's neighbor pay him each week to mow the lawn?

$$5x - 10 = 40$$

$$+10 \quad +10$$

$$\frac{5x}{5} = \frac{50}{5}$$

$x = 10$

4. Without evaluating each expression, determine which value is the greatest. Explain how you know.

a. $7\frac{5}{6} - 9\frac{3}{4}$ neg

b. $(-7\frac{5}{6}) + (-9\frac{3}{4})$ neg

c. $(-7\frac{5}{6}) \cdot 9\frac{3}{4}$ neg

d. $(-7\frac{5}{6}) \div (-9\frac{3}{4})$ pos

5. Solve each equation.

a. $(8.5) \cdot (-3) = a$

$$\begin{array}{r} 8.5 \\ \times 3 \\ \hline 25.5 \end{array}$$

b. $(-7) + b = (-11)$

-4

c. $c + 3 = 15$

$-3 \quad -3$

$c = 12$

d. $d \cdot (-4) = 32$

$$\frac{+7}{-4}$$

-8