Lesson 28 (5.2) Solve division word problems involving multi-digit division with group size unknown and the number of groups unknown. Fluency Prac min.) Unit Conversions (3 min.)

0.37 × 1000

1 m = 100 cm

1 L = 1000 mL

1 ft = 12 in

0.37 L = 370 mL

0.152 kg = 152 g

×1000 or 10³

0.08 m = 8 cm

1 m = 100 cm

1 m = 1000 mm

1 km = 1000 m

1 L = 1000 mL

1 kg = 1000 g

Concept Development (38 min.) Distribute Problem Set

1. Model the problem.
2. Calculate to solve, and write a statement.
3. Assess the solution for reasonability.

1. Ava is saving for a new computer that costs $1,218. She has already saved half of the money. Ava earns $14.00 per hour. How many hours must Ava work in order to save the rest of the money?

43 75/14

1218 / 2

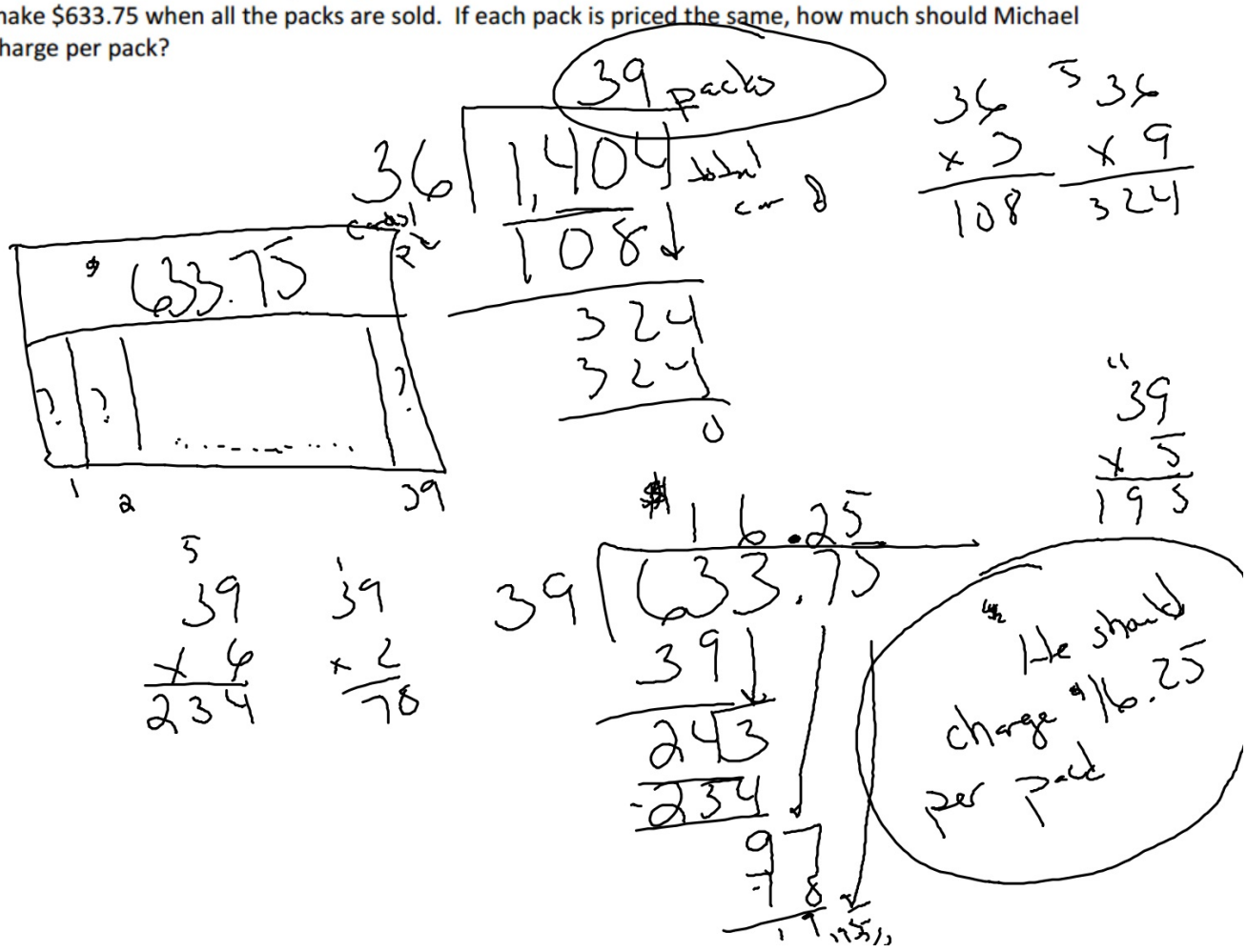
609
2 | $1,218
-12↓
01
-0↓
18

43.5
14hr | $609.0
-56↓
49
-42↓
70

14
×3
42

= Ava must work 43.5 hrs to save the rest of the money

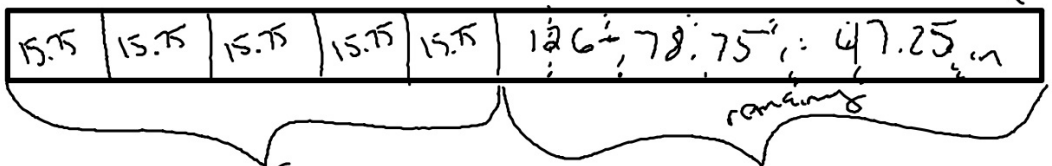
2. Michael has a collection of 1,404 sports cards. He hopes to sell the collection in packs of 36 cards and make $633.75 when all the packs are sold. If each pack is priced the same, how much should Michael charge per pack?



3. Jim Nasium is building a tree house for his two daughters. He cuts 12 pieces of wood from a board that is 128 inches long. He cuts 5 pieces that measure 15.75 inches each and 7 pieces evenly cut from what is left. Jim calculates that, due to the width of his cutting blade, he will lose a total of 2 inches of wood after making all of the cuts. What is the length of each of the seven pieces?

$15.75 \times 5 = 78.75$

$128 - 2 = 126$

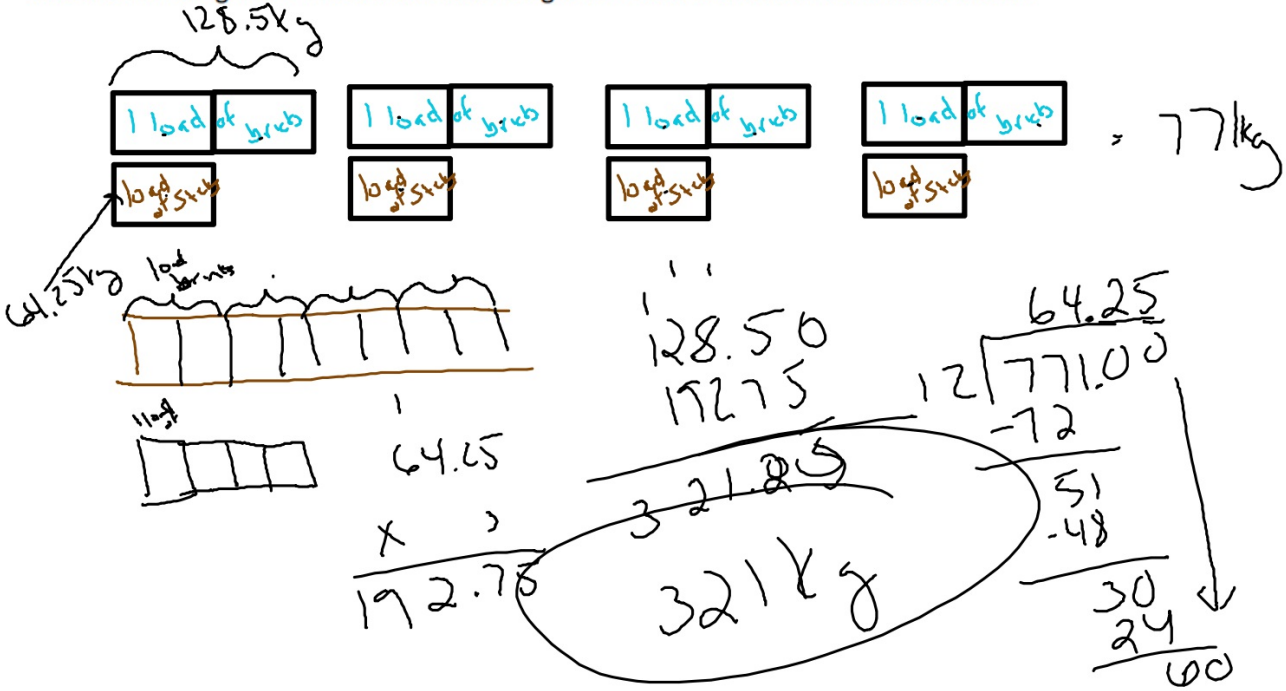


$126.00 - 78.75 = 47.25$

$$7 \overline{)47.25} \quad 6.75$$
$$-42$$
$$52$$
$$-49$$
$$35$$
$$35$$
$$0$$

Each of the 7 pieces is 6.75 in long

4. A load of bricks is twice as heavy as a load of sticks. The total weight of 4 loads of bricks and 4 loads of sticks is 771 kilograms. What is the total weight of 1 load of bricks and 3 loads of sticks?



Student Debrief (10 min.) Solve division word problems involving multi-digit division with group size unknown and the number of groups unknown.

- How are the problems alike? How are they different?