Multi-Step Problem Solving Mini-Assessment

Kara Loves Music!

1) Kara's playlist has three songs:

- "Each Day" (3 minutes)
- "Best Friends" (3 minutes)
- "This Weekend" (2 minutes)

How many times can Kara listen to her entire playlist during a 35-minute car ride? _____

Explain your answer using numbers, words, and/or pictures.

Use this table for problems 2 and 3

Album	Length (in minutes)
Driving Fast	43
Silent Sister	58
Forever Funny	37
Today's Five	45
The Barnyard	52
Free Bison	48

2) This weekend, Kara will take a $2\frac{1}{2}$ hour car ride to visit her relatives. She wonders if she can listen to all the albums shown in the table above.

Can Kara listen to all of the albums on her car ride? _____

Explain your answer using numbers, words, and/or pictures

3) Kara decided to listen to the Free Bison album on the $2\frac{1}{2}$ hour car ride back home. She started playing it at the beginning of the car ride and just finished listening to it 3 times in a row.

Use *M* to represent the number of minutes before Kara gets home.

Write an equation that could be solved to determine how many minutes it will be before Kara gets home.

_____

Setting up The Road Runner Race

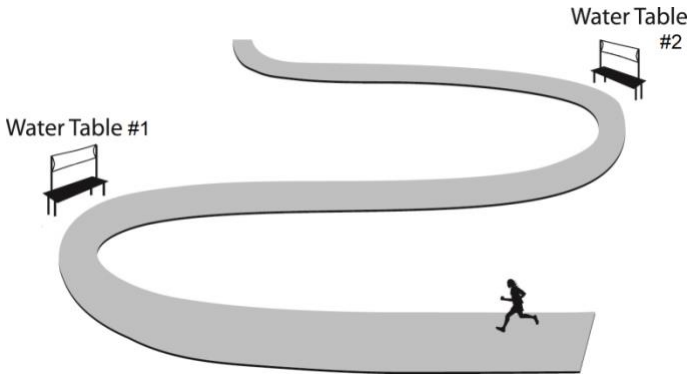
Last year, Rob set up the Road Runner Race for his school. The race was 1,200 meters long and 188 people signed up to run the race. 38 people did not show up to run.

4) This year, there will be 3 times as many runners as last year.

a. How many people will run the race this year? _____

b. Explain your answer using numbers, words, and/or pictures.

5) This year, the race will be 4 times as long as last year. Rob has 6 water tables to use along the race route. The distance between water tables is the same and the last one will be placed at the finish line.



a. How far apart is the distance between water tables #1 and #2?

_____

b. Explain your answer using numbers, words, and/or pictures.

6) Rob bought 27 packs of cups, with 12 cups in each pack. There are 6 tables and Rob will put the same number of cups on each table.

a. How many cups will be on each table? _____

b. Explain your answer using numbers, words, and/or pictures.

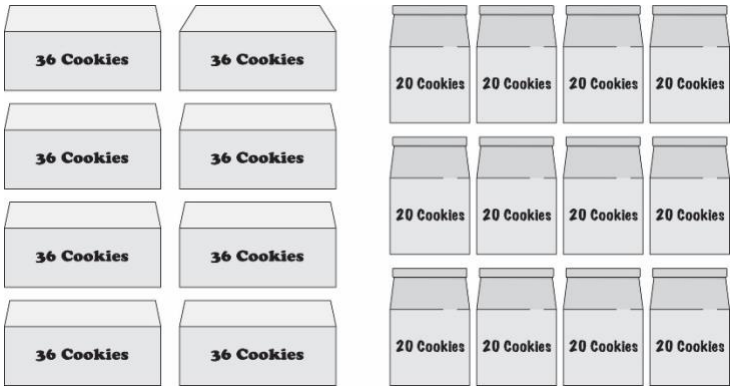
Multi-Step Problem Solving Mini-Assessment

Cookies for Bake Sale Volunteers

This year, Central Middle School is having a bake sale. Two teams of students bake cookies.

- Josie's team puts cookies in 8 boxes with 36 in each box.
- Rich's team puts cookies in bags of 20.

7) The two teams bake the number of cookies to fill 8 boxes and 12 bags as shown.



a. How many total cookies did the students bake?

_____

b. Explain your answer using numbers, words, and/or pictures.

8) How many more cookies are in 5 **boxes** than are in 5 **bags**?

_____

Explain your answer using numbers, words, and/or pictures.

9) After the bake sale, 1 box and 1 bag of cookies remained. The organizers gave the remaining cookies to the 6 students on the teams. Each student received the same number of cookies.

a. What is the largest number of cookies each student could have received?

_____

b. How many extra cookies would be left after each student received that number of cookies?

_____

Multi-Step Problem Solving Mini-Assessment

Parrots

10) The largest parrot in the world can grow to about twelve times as long as the smallest parrot. The largest parrot can grow up to 96 cm.

a. Write an equation you can use to find the length of the smallest parrot.

_____

b. How much longer, in cm, is the largest parrot than the smallest parrot? _____

c. Explain your answer using numbers, words, and/or pictures.

Answers and teacher facing materials at:

https://achievethecore.org/page/1031/multi-step-problems-using-the-four-operations-mini-assessment