

ACTIVITY 13

Estimation Math Libs

TEKS 5.4 Number, operation and quantitative reasoning. The student estimates to determine reasonable results. The student is expected to: **(B)** estimate to solve problems where exact answers are not required.

Objective: Students use estimation skills in problem-solving situations.

Number of students: Students work in groups of two.

Materials:

- Estimation Math Libs sheets (and answers)
- Pencil/paper
- Internet to research missing data

Steps:

Step 1: Each player chooses an Estimation Math Lib and does not show it to the other player.

Step 2: Player 1 starts by asking Player 2 the questions in parentheses on the Math Lib and writes the responses in the blanks.

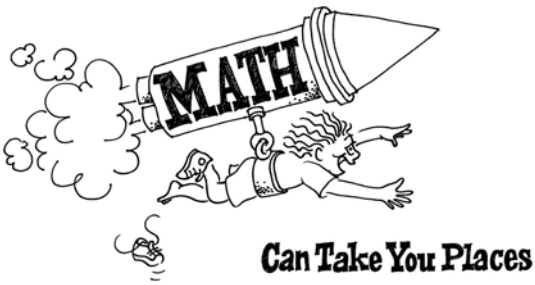
Step 3: Player 2 then asks Player 1 the questions in parentheses on the Math Lib he/she chose and writes the responses in the blanks.

Step 4: When both Math Libs are done, each player reads them aloud. Then, each player works the word problem he/she created.

Step 5: Players choose another Math Lib each and start the process again. When all the Math Libs have been worked, players use the answer sheet to check their work.

Extensions/Modifications:

Students can work in pairs or individually to write their own Math Libs problems and exchange them with class members.



ACTIVITY 13 Estimation Math Libs

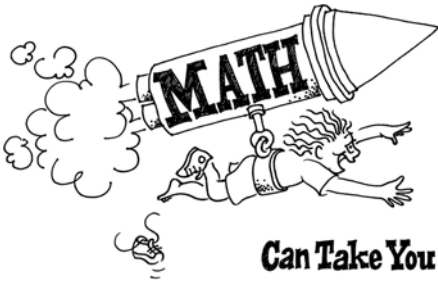
A) A _____ brought two packages of _____,
(1. a job or career) (2. thing)

on the train. Each package contained 72 _____. Which is the best
(2. thing)

estimate for the total number of _____ that _____
(same as #2) (same as #1)

brought on the train?

- a. 70 b. 190 c. 140 d. 200



Can Take Your Places

ACTIVITY 13 Estimation Math Libs

B) _____ lives in _____, and likes to drive

(1. *your name*)

(2. *name of a city*)

to _____ every Saturday and Sunday. _____ is

(3. *name of another city*)

(*same as #3*)

about _____ miles away. If _____ drives to and from

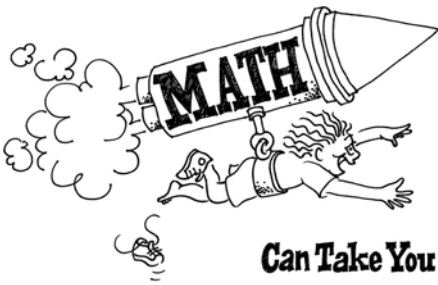
(*distance*)

(*same as #1*)

_____ both days, about how many total miles

(*same as #3*)

were driven going to and from the two cities?



Can Take You Places

ACTIVITY 13 Estimation Math Libs

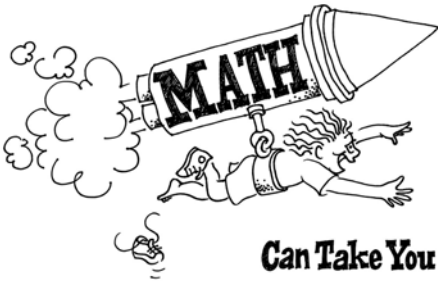
C) _____ is a travel agent. _____ is planning a 4-day
(1. name) (same as #1)

vacation package to _____ for a family of _____. Each roundtrip
(2. destination) (3. number of people)

airline ticket costs _____ and the hotel costs \$ _____. Admission
(cost of tickets) (cost per night per person)

into _____ cost _____ per person.
(theme park or other attraction) (admission per person)

Excluding the costs of food and other expenses, about how much will the vacation package cost?



Can Take Your Places

ACTIVITY 13 Estimation Math Libs

D) _____ watches _____ people board the railway system in 20 minutes.

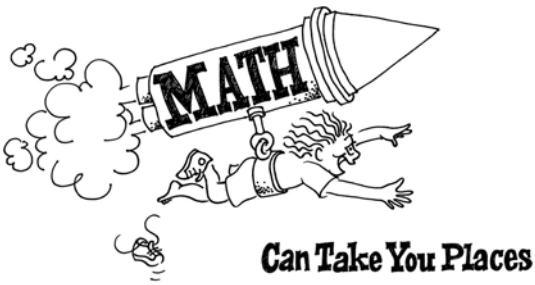
(1. *name*) (2. *number greater than 30*)

The railway system runs _____ each day. Find

(3. *number of hours*)

the best estimate of the total number of people who ride the railway

Monday through Friday.



ACTIVITY 13 Estimation Math Libs

E) _____ and her friend _____ really enjoy playing

(1. *girl's name*)

(2. *another girl's name*)

_____ for the _____. The table below

(3. *a sport*)

(4. *name of a sports team*)

shows the number of points each of the girls scored for the first three games.

Point Totals for the First Three Games

(Girl #1)	(Girl #2)
16	26
7	13
22	4

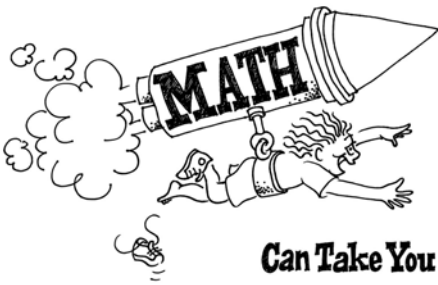
About how many total points did both girls score during the first three games?

a. 70

b. 85

c. 100

d. 90



Can Take You Places

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F) _____'s _____ class is taking a field trip to
(1. teacher's name) (2. subject at school)

_____. It costs \$7.15 for each student to go on the trip. If there
(3. someplace fun)

are 58 students going, about how much total money will _____
(same as #1)

need to collect for the field trip?

- a. \$330 b. \$420 c. \$510 d. \$600