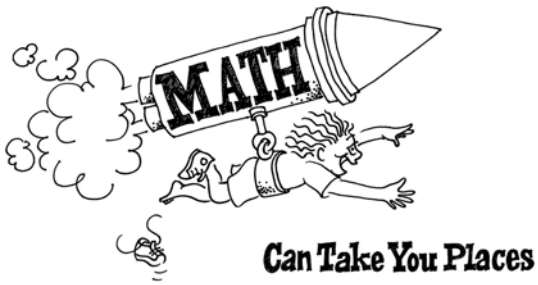


ACTIVITY 13
Estimation Math Libs

Texas Essential Knowledge and Skills: 3.4B, G; 4.4D

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.

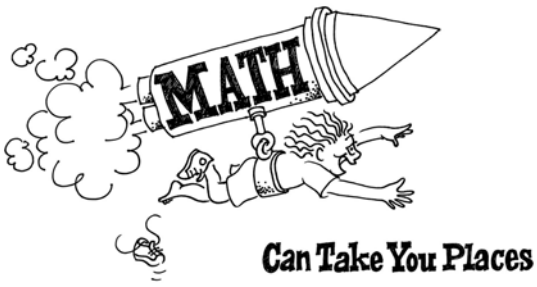
Step 3: Player 2 then asks Player 1 the questions in parentheses on the Math Lib he/she chose and writes the responses in the blanks.

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 _____

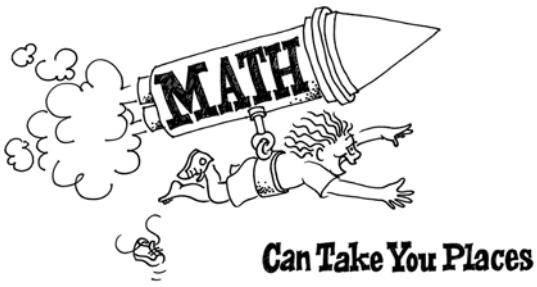
(*same as #2*) (*same as #1*)

brought on the train?

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

travelocity

KERA UNLIMITED



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*)

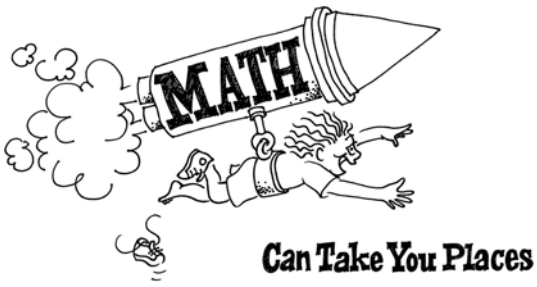
about _____ miles away. If _____ drives to and from

(*distance*) (*same as #1*)

_____ both days, about how many total miles

(*same as #3*)

were driven going to and from the two cities?



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*)

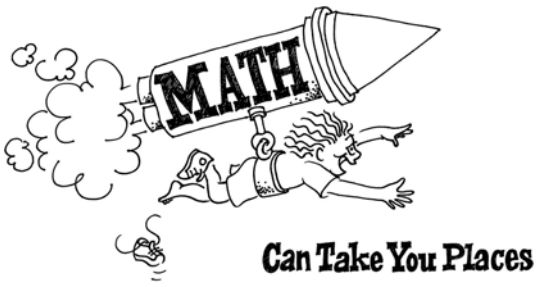
airline ticket costs _____ and the hotel costs $_____. Admission

(*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?



ACTIVITY 13
Estimation Math Libs

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

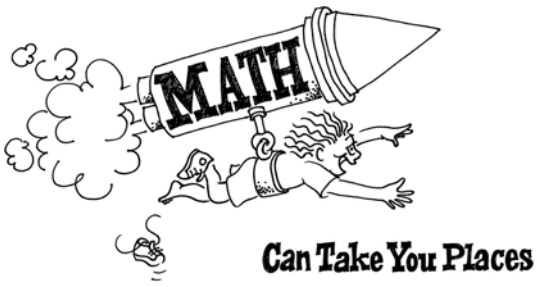
(1. *name*) (2. *number greater than 30*)

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*)

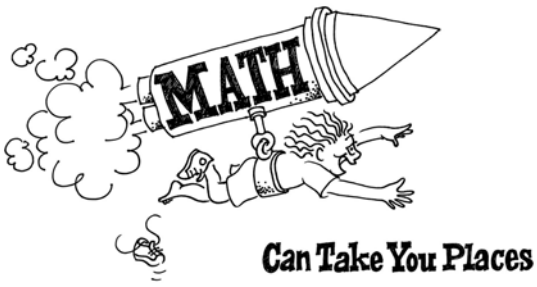
shows the number of points each of the girls scored for the first three games.

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



ACTIVITY 13
Estimation Math Libs

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