

Busy Day

A group of your friends have invited you to join them on Saturday to go to a matinee movie, get some lunch and play some video games. Your parents say you can go, but only if you do all your chores first. Your chores list includes doing your homework which will take you about 45 minutes, collecting and taking out all the trash which takes about 15 minutes, 30 minutes of folding laundry, and cleaning your room which usually takes about 45 minutes.

Your friends are getting together at 11:00 a.m. and you have a lot to do before your mom and dad will let you go. What time do you need to wake up? Are there other things you need to do before you leave the house? Remember to show all your work in an organized way, using correct math language.

Job Hunting

You are looking for a job after school and you look in the local paper. You see the following 3 jobs that seem interesting.

(1) Baby-sitting 2 young children: Work after school 2 hours per day Monday, Wednesday and Friday; pays \$4.50 per hour.

(2) Delivery route: Deliver 100 papers each day after school Monday through Friday; it should take 45 minutes per day using a bike and 1 hour 15 minutes per day if you walk. It pays 5 cents per paper.

(3) Work for the Green Mountain Bank: mow lawn, shovel snow, empty trash, etc. Work 5 hours per week; pays \$3 per hour. This job pays \$10 per week overtime for special projects (rake leaves, trim bushes, file papers, etc.) which amounts to \$10 extra (you can count on this overtime).

If you had your choice of any of these jobs, which job would you decide to take?

Compare each job - maybe for a few months (you decide how many months are necessary for you to be sure you are getting the best job). Show all your data and give mathematical reasons why you are choosing one job over the other two jobs.

A Stinky Situation

My dog, Charlie, got sprayed by a skunk and had to have a tomato juice bath. My bathtub holds 21 gallons of water. How many pints of tomato juice do I need to buy to fill my tub halfway for my dog's bath?

Hint:

2 pints = 1 quart

4 quarts = 1 gallon

Exemplars

Zeno the Xylophone Maker

There are 13 keys on a xylophone (C, D, E, F, G, A, B, C, D, E, F, G and A).

The 1st key (C) is 7.5 inches long.

The 2nd key (D) is 7.25 inches long.

The 3rd key (E) is 7 inches long.

...and so on continuing this pattern in size.

Zeno the xylophone maker was about to begin construction on a new xylophone when he realized he had run out of metal stripping used to make the keys. This metal stripping comes in 1-yard pieces. How many 1-yard pieces does Zeno need to buy in order to make 1 xylophone?