Lesson Plans & Worksheets

PAWS IN JOBLAND

Grades 3 - 5

XAP
REACH FARTHER

Lesson Plan 36 - Number Crunch

Individual activity

Learning objective:
- To use all four number operations to solve real-life problems

Curriculum links: Math– problem solving.

Resources needed/preparation:
- Photocopies of Worksheet 36
- Paper for "working out"

Background: Many jobs require knowledge of math. This activity poses mathematical problems that relate to realistic situations. Students can practice their mathematical knowledge while appreciating that in some jobs you will have to deal with figures.

Introduction/guidelines for students:
- Ask students to think of jobs that use math.
- Discuss why math and numbers are important in these jobs. Is it because people are dealing with money, time, measurement, quantities, weight or capacities, etc?
- Hand out the worksheets. Explain that each of the mathematical problems deals with something the person in that job may need to calculate.

Ideas for further development:
- Students could make up statistical or mathematical problems for each other involving jobs not mentioned on the worksheet. Other jobs they could use are: bank teller, brickmason, florist, architect, carpenter, air traffic controller, engineer, accountant, stockbroker, cook, real estate agent. Students could look up these and other jobs in Paws in Jobland.

Ideas for making the activity easier:
- This activity requires students to be able to perform quite complex mathematical operations. For this reason it may not be suitable for all students. However, you could use some of the ideas on the worksheet to set your own, easier problems.

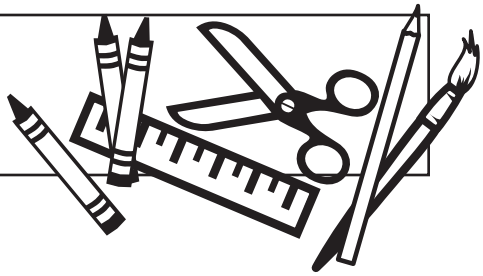
Display ideas:
"Jobs involving numbers". Pictures of the jobs mentioned on the worksheet, as well as the ones above, could be incorporated in a display along with mathematical symbols. Copies of the worksheet could be left out for other students to see.

Answers
1) 6 hours
2) $59.62
4) 9 trips
5) $164.00

Worksheet 36 - Number Crunch

My Name: _____ Date: _____

Materials/Resources Needed:
- Photocopies of Worksheet 36
- Paper for "working out"



- A window cleaner takes 3 minutes to clean a window. In a street of 20 houses, each house has 6 windows.

How long will it take the window cleaner to do the whole street?

- A baker has an order from a restaurant for 60 bagels, 40 whole-wheat bagels, 15 donuts and 2 black forest cakes. Bagels cost 50 cents each, whole-wheat bagels 50 cents, donuts are 75 cents each and a black forest cake is $2.50. The baker offers a 10 percent discount for orders over $20.

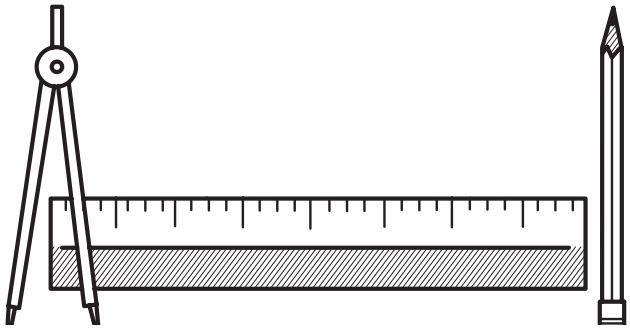
How much does the baker charge the restaurant?

- A delivery van driver has been asked to deliver 60 parcels that weigh 22 pounds each, and 45 parcels that weigh 110 pounds each to an address in another town. She is allowed to carry 700 pounds in her van on each trip.

How many trips will the driver have to make?

- A customer has ordered $200 Cdn from a travel agent. The rate of exchange is $0.81 US for every Canadian dollar. There is a $2 commission charge on all foreign currency (this is a charge the travel agency makes for ordering and handling the money).

How much will the travel agent charge the customer?



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