

Career Math

REM 598C

A TEACHING RESOURCE FROM...



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Introduction

A brief description of a particular occupation introduces each lesson page in *Career Math*. This is followed by word problems pertaining to that occupation. Students gain practical knowledge about a variety of jobs while sharpening their math skills in addition, subtraction, multiplication, and division. Calculating time and solving problems involving money matters are also a part of some of the exercises.

Comprehension, logical thinking, and orderly decision-making are enhanced as students complete the lessons in this book.

This book is designed for use in grades 4 – 12. Readability is on the 3rd – 4th grade level.

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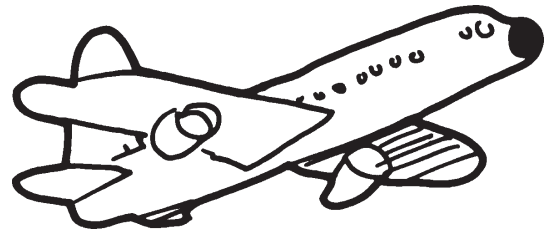
Name _____

AIR TRAFFIC CONTROLLER

Judy is an air traffic controller at the airport. Her job is to make sure planes take off and land safely. Judy talks to the pilot on a radio. She tells the pilot which runway to take off from and when to go. She watches the incoming planes on a radar screen. She tells each pilot when it is safe to land and which runway to use.

1. Flight 34 took off at 7:15 a.m. Flight 122 landed at 7:27 a.m. How many minutes in between? _____
2. There are 210 passengers on Flight 96. 174 passengers on Flight 29. How many passengers altogether? _____
3. Judy works 8 hours a day. She works 6 days a week. How many hours per week?

4. 10 planes can land in 30 minutes. What is the average time for each plane to land? _____
5. 6 planes are waiting to take off. It takes 2 minutes for each plane to get into the air. How long will it take for all 6 planes to take off? _____
6. Judy helped 86 planes land on Tuesday. She helped 75 planes take off. How many planes in all? _____



Solve the following:

$$\begin{array}{r} 7. \quad 27 \\ + \quad 9 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 9 \\ \times 4 \\ \hline \end{array}$$

$$9. \quad 12 \overline{)36}$$

$$\begin{array}{r} 10. \quad 155 \\ - \quad 75 \\ \hline \end{array}$$

Name _____

CHEF

Michael is a chef. He cooks meals for hundreds of people in a restaurant. Michael buys the meat, vegetables, and fruit he needs. Michael gets the food ready by mixing, chopping, and slicing. He bakes the breads, rolls, and desserts. He then is ready to cook when the waiters and waitresses rush in with the orders.

1. The restaurant opens at 5:00 p.m. Michael needs 4 hours to get ready. At what time does Michael start work? _____
2. Michael made 10 pies. He cut each pie into 8 pieces. How many pieces of pie? _____
3. Michael bought 30 pounds of chicken, 15 pounds of beef, and 20 pounds of fish at the market. How many pounds in all?

4. Michael baked 150 rolls. Each group of diners gets 5 rolls. How many groups can he serve? _____
5. Each customer's salad bowl holds 2 cups of salad. How many cups of salad serve 40 people? _____
6. Michael cooked for 45 people on Friday, 62 people on Saturday, and 43 people on Sunday. How many meals did Michael make? _____



Solve the following:

7.
$$\begin{array}{r} 19 \\ \times 15 \\ \hline \end{array}$$

8.
$$15 \overline{)120}$$

9.
$$\begin{array}{r} 25 \\ 14 \\ + 33 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 210 \\ - 165 \\ \hline \end{array}$$

Name _____

TV PRODUCTION ASSISTANT

Nancy is a TV production assistant. Her job is to make sure things work and happen when they should. Nancy reads the script and times the show. She must make sure it fits into the time allowed. She finds props and scenery for the show. During rehearsals she sits in the control room.

1. Nancy spent 3 hours calling actors, 2 hours finding props, 2 hours at rehearsal, and 4 hours in meetings. How many hours did she work? _____
2. Nancy needs to call 8 actors for each show. She is working on 3 shows. How many actors must she call? _____
3. The script takes 27 minutes. It is to be divided into 3 equal segments. How long should each segment be?

4. Nancy's show must fill a half hour of TV time. 12 minutes will be commercials. How long should the program itself be?

5. Nancy's stopwatch told her the rehearsal lasted 36 minutes. If they cut out 9 minutes, how long will the rehearsal be? _____
6. Nancy needed props for a game show. She ordered 40 cans of whipped cream, 12 buckets of slime, 13 rubber balls, and 144 raw eggs. How many props in all?



Solve the following:

7. $12 \overline{)144}$

8. $\begin{array}{r} 86 \\ - 16 \\ \hline \end{array}$

9. $\begin{array}{r} 60 \\ \times 15 \\ \hline \end{array}$

10. $\begin{array}{r} 114 \\ 28 \\ + 42 \\ \hline \end{array}$

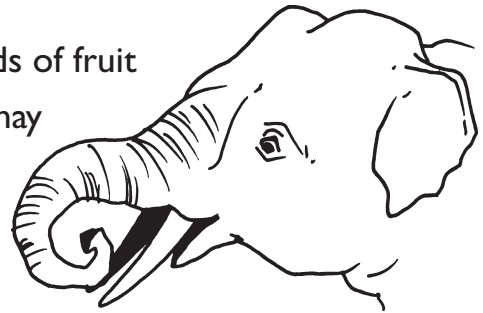
Name _____

ZOOKEEPER

As a zookeeper, Stan works with many different animals. He feeds them and watches to make sure the animals feel well. Stan also must help keep the animals' living areas clean. One of Stan's most important jobs is helping take care of newborn animals. As the animals grow up, a closeness grows between the animals and their keeper.

1. The zoo closes at 5:00 p.m. It takes $3\frac{1}{2}$ hours to feed all the animals after closing. At what time do the zookeepers finish feeding? _____

2. The Indian elephant eats 28 pounds of grain, 12 pounds of fruit and vegetables, 14 pounds of grass, and 80 pounds of hay each day. How many pounds in all?



3. Each sea lion eats 10 pounds of fish a day. There are 6 sea lions in the zoo. How many total pounds of fish per day? _____

4. It takes humans about 270 days to grow before they are born. It takes an otter about this long, also. How many months is this? _____

5. It takes $1\frac{1}{4}$ years for a baby giraffe to be born. How many months is that?

6. Omar the gorilla eats 4 carrots, 4 oranges, 1 yam, 3 apples, 2 bananas, and 6 grapes each day. How many fruits and vegetables in all? _____

Solve the following:

$$\begin{array}{r} 7. \quad 137 \\ \quad \quad 11 \\ + \quad \quad 5 \\ \hline \end{array}$$

$$8. \quad 5 \overline{)95}$$

$$\begin{array}{r} 9. \quad 105 \\ - \quad 38 \\ \hline \end{array}$$

$$\begin{array}{r} 10. \quad 213 \\ \quad \quad \times 8 \\ \hline \end{array}$$

Name _____

DETECTIVE

Betty is a police detective in the robbery division. She investigates kidnappings, armed robberies, muggings, bank robberies, and purse snatchings. She works closely with patrol officers. She also spends a lot of time in court. There, she tells the judge and jury what the police know about a case.

- In 1990, the number of burglaries that took place in the United States was 311,200. In 1989, there were 301,100 burglaries. Comparing 1989 to 1990 how many more were in 1990? _____
- Betty started work at 8:30 a.m. She went home at 5:30 p.m. How many hours did she work? _____
- Betty investigated 30 robberies, 46 muggings, 5 bank robberies, and 12 purse snatchings. How many crimes in all? _____
- Betty is looking at pictures of criminals in a mug book. There are 20 pictures on each page. She has looked through 8 pages. How many pictures? _____
- In 1990, the number of 15-year-olds that were arrested in the United States was 322,836. During that same year, another 390,420 arrests were 16 years of age. How many arrests in all? _____
- Chicago has 12,048 police officers. New York City has 26,844 police officers. How many more officers in New York City than Chicago? _____



Solve the following:

7. $11 \overline{)132}$

8.
$$\begin{array}{r} 10,135 \\ - 9,390 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 14 \\ \times 27 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 29 \\ 32 \\ + 7 \\ \hline \end{array}$$