

20. Mr. Trager has \$500.00 to spend at a bicycle store. All prices listed below include tax.
- He buys a new bicycle for \$273.98.
 - He buys 3 bicycle reflectors for \$7.23 each and 1 bicycle helmet for \$42.36.
 - He plans to use the remaining money to buy new cycling outfits for \$78.12 each.

What is the greatest number of cycling outfits that Mr. Trager can buy with the remaining money?

Show your work.

Answer _____ cycling outfits

21. Jim needs to rent a car. A rental company charges \$21.00 per day to rent a car and \$0.10 for every mile driven.

- He will travel 250 miles.
- He has \$115.00 to spend.

Write an inequality that can be used to determine d , the maximum number of days that Jim can rent a car.

Inequality _____

Jim believes the maximum whole number of days he can rent the car is 5. Is he correct? Why or why not?

Explain your answer.

22. Jen's goal is to run a total of 22 miles in five days. The table below shows her log for the number of miles she ran on Monday, Tuesday, Wednesday, and Thursday.

JEN'S RUNNING LOG

Day	Distance (miles)
Monday	$4\frac{3}{4}$
Tuesday	$5\frac{1}{8}$
Wednesday	0
Thursday	$6\frac{1}{4}$
Friday	?

How many miles must Jen run on Friday to reach her goal?

Show your work.

Answer _____ miles

23.

Mario is setting up a new tent during a camping trip. The tent came with 7 feet of rope. The instructions are to use 34.5 inches of the rope to tie a tarp on top of the tent. Then, the remaining rope should be cut into $8\frac{1}{4}$ -inch sections to tie the tent to stakes in the ground. Mario will use all of the rope as instructed. Write and solve an equation to determine the number of $8\frac{1}{4}$ -inch sections of rope Mario can cut from the rope.

Show your work.

Answer _____

24. A school club needs 300 feet of rope for a project. They have the amounts of rope listed below.

- 2 pieces of rope that are each 16 yards in length
- 1 piece of rope that is 12.5 yards in length
- 1 piece of rope that is 123.25 feet in length

How much additional rope, in feet, does the school club need in order to have enough rope for their project?

Show your work.

Answer _____ additional feet of rope

25. The table below shows the weekly change in the price of one gram of gold for four weeks.

ONE GRAM OF GOLD

Week	Weekly Change in the Price (dollars)
1	+1.25
2	-3.125
3	+0.625
4	+1.5

By how much did the price of one gram of gold change from the beginning of week 1 to the end of week 4? Did the price increase or decrease?

Explain how you found your answer.

At the end of week 4, the price per gram of gold was \$39.28. What was the price per gram of gold at the beginning of week 1?

Show your work.

Answer _____ price per gram of gold