

NP 1

Anna and Bob read at the same rate.

Anna is on page 8 of her book and Bob is on page 12 of his book.

What page will Anna be on in her book when Bob is on page 36 of his book?
Show your work.

NP 2

Mrs. Baker's 8th grade class is renting a bus for their class trip. The cost of the bus is \$80.00 per day plus \$2.00 for each mile driven.

Molly said, "This means that the cost of renting the bus is \$82.00 per mile."

Do you agree with Molly?

Explain your answer.

NP 3

Bernice is 5 years old and is 3 feet tall.

She says, “This means when I’m 10 years old I will be 6 feet tall.”

Do you agree with Bernice? Explain your answer.

NP 4

Sally is 4 years old and she is 3 feet tall.

Donnie said, “This means that when Sally was 2 years old she was $1\frac{1}{2}$ tall.”

Do you agree with Donnie? Explain your answer.

NP 5

Kim and Bob ran equally fast around a track.

Kim started first.

When she had run 9 laps, Bob had run 3 laps.

When Bob had run 15 laps, how many laps had Kim run?

Explain your answer.

NP 6

Thrills Amusement Park charges a \$10 admission fee plus \$1 per ride.

Maria determined that the cost for going on three rides at *Thrills Amusement Park* is \$33.00. Her reasoning is shown below.

$$\frac{\mathbf{11\ dollars}}{\mathbf{1\ ride}} = \frac{\mathbf{33\ dollars}}{\mathbf{3\ rides}}$$

Is Maria's reasoning correct?

Explain your answer.

NP 7

It takes Scott 10 minutes to ride his bike from school to the soccer field.
It takes Lucinda 10 minutes to ride her bike from school to the soccer field.

Choose the number of minutes that best describes the amount of time it takes Scott and Lucinda to *ride their bicycles together* from school to the soccer field.

- a. 20 minutes
- b. 10 minutes
- c. 5 minutes

Explain your choice.

NP 8

Today is Marsha's birthday. She is now 8 years old.
Today is also David's birthday. He is now 12 years old.

When Marsha is 16 years old how old will David be?

Explain your answer.

NP 9

Tomas painted four sections of a fence. It took four hours for the paint to dry.

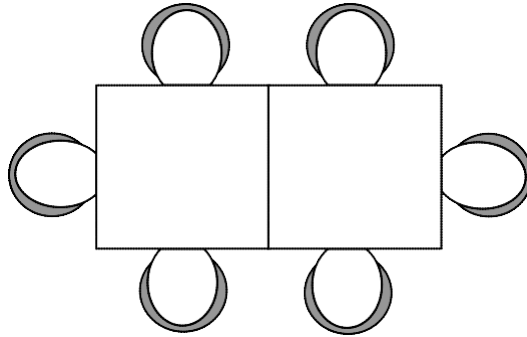
At the same time Rob painted two sections of the same fence.

About how many hours did it take the paint on Rob's two sections to dry?

Explain your answer.

NP10

Two tables are arranged in a line. 6 chairs fit around the 2 tables as shown in the picture below.

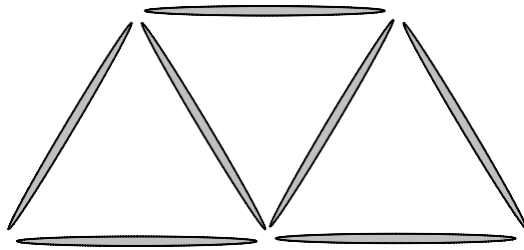


How many chairs fit around 8 tables arranged in a line?

Explain your answer.

NP 11

Weston used 7 toothpicks to make three triangles as shown in the picture below.

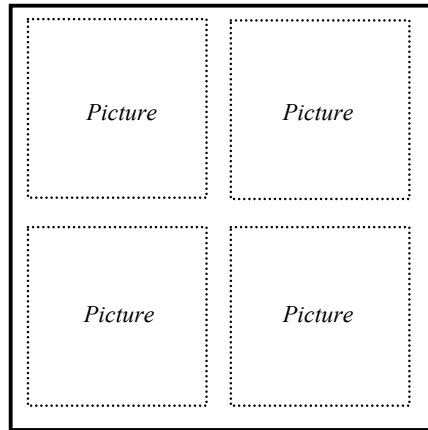


How many triangles can Weston make with 21 toothpicks?

Explain your answer.

NP 12

One scrapbook page measures 6 inches by 6 inches.
Four pictures fit on one scrapbook page as shown below.



How many pictures fit on a scrapbook page that measures 12 inches by 12 inches?

Explain your answer.