**Tips for Taking the Test**

Here are some suggestions to help you do your best:

- Be sure to read carefully all the directions in the test book.
- You may use your tools to help you solve any problem on the test.
- Read each question carefully and think about the answer before writing your response.
- Be sure to show your work when asked. You may receive partial credit if you have shown your work.

- This picture means that you will use your ruler.

- This picture means that you will use your protractor.
A diagram of Mr. Hill's yard is shown below.

Mr. Hill wants to plant grass seed in his yard. He needs to know how much seed he should buy. What is the area of Mr. Hill's yard?

**Answer** ______________ square feet

On the lines below, explain your answer.

_________________________________________________________________

_________________________________________________________________
In Ms. Fletcher’s class, 7 of the 20 students attend an after school art program. What percent of the students attend the after school art program?

*Show your work.*

*Answer* ____________ %
Part A

On the grid below, draw a rectangle with a perimeter of 34 units.

Part B

What are the lengths of each side of the rectangle?

Answer _______________________________ units
Mia puts pictures into a box like the one shown below.

![Diagram of a box with dimensions 2 ft x 6 ft x 4 ft]

[not drawn to scale]

**Part A**

What is the volume of the box? Use the formula \( V = lwh \).

*Show your work.*

**Answer** __________ cubic feet
**Part B**

If the height of the box is doubled, what will be the volume of the new box?

**Answer** _______________ cubic feet

On the lines below, explain how you found your answer.

_____________________________________________________________________

_____________________________________________________________________

_____________________________________________________________________

_____________________________________________________________________

_____________________________________________________________________
30 Solve the equation below for $r$.

$$r - 9 = 16$$

*Show your work.*

*Answer* $r =$ _______________
On Friday, Lewis saw a certain number of hummingbirds, \( h \). On Saturday, he saw 3 more than twice the number of hummingbirds he saw on Friday.

Write an expression for the number of hummingbirds Lewis saw on Saturday.

\[ \text{Expression} \]

Avery is comparing two expressions. The first expression is \( 8^3 \). The second expression is \( 3^5 \). Which expression is greater?

\[ \text{Show your work.} \]

\[ \text{Answer} \]
At Anthony’s school, 25% of the 72 sixth-grade students wear either glasses or contact lenses.

**Part A**

How many sixth-grade students wear either glasses or contact lenses?

*Show your work.*

**Answer** ________________ students

**Part B**

There are 9 students who wear glasses. Of the students who wear glasses or contact lenses, what percent wear glasses?

*Show your work.*

**Answer** ________________ %
Kyle has a container that holds 60 paperclips. Half of the paperclips are metal. The other half are colored plastic: 10 red, 10 green, and 10 blue.

Part A

If Kyle randomly takes a paperclip out of the container, what is the probability that the paperclip will be colored plastic?

**Probability** ______________

Part B

If Kyle randomly takes a paperclip out of the container, what is the probability that the paperclip will be red or green?

**Probability** ______________

On the lines below, explain your answer.

__________________________________________

__________________________________________

__________________________________________

__________________________________________

__________________________________________

__________________________________________
Frank’s grocery bill is $40.43. After Frank uses some coupons, the bill is $30.35.

**Part A**

By rounding to the nearest dollar, *estimate* the amount of money Frank saved.

*Answer* $ ____________

**Part B**

What is the approximate percent that Frank saved on his grocery bill?

*Show your work.*

*Answer* _______________ %