**Tips for Taking the Test**

Here are some suggestions to help you do your best:

- Be sure to carefully read 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 a 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 pattern blocks.

This picture means that you will use your counters.
Heather has 100 trading cards as shown below.

```
  01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
  01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
  01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
  01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
  01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
  01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
  01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
  01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30
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**Part A**

Heather will give her sister 25% of the cards. Draw a ring around the number of cards that Heather will give her sister.

**Part B**

What percent of the 100 trading cards will Heather have left after she gives 25% of the cards to her sister?

*Answer* ___________ %
Janet is going to play the game “Lucky Ducks” at the fair. To play the game, she will choose one of the rubber ducks in the pool.

Each rubber duck in the pool has a colored star underneath it that cannot be seen by the game players.

- There is a blue star on 1 duck.
- There is a red star on 2 ducks.
- There is a green star on 9 ducks.

**Part A**

What is the probability that Janet will choose a duck with a red star?

*Answer* ________________

**Part B**

What is the probability that Janet will choose a duck that does *not* have a green star?

*Answer* ________________
Darryl is learning to play the guitar. Each week, he adds to his daily practice time. His practice table is shown below.

**DARRYL’S GUITAR PRACTICE**

<table>
<thead>
<tr>
<th>Week</th>
<th>Daily Practice Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>12 minutes</td>
</tr>
<tr>
<td>2</td>
<td>15 minutes</td>
</tr>
<tr>
<td>3</td>
<td>18 minutes</td>
</tr>
<tr>
<td>4</td>
<td>21 minutes</td>
</tr>
</tbody>
</table>

If Darryl continues to add to his practice time each week in the same pattern, how many minutes will he be practicing each day in Week 7?

**Answer** ___________ minutes

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

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________
Linda’s family is moving. They have packed their kitchen items into the 10 boxes shown in the diagram below.

**Part A**

Linda marked 3 of her boxes with a “D” for dishes. What fractional part of the boxes did she mark with a “D”?

*Answer* ______________

**Part B**

Linda marked the boxes that had food in them with an “F.” Write an “F” on $\frac{1}{5}$ of the boxes in the diagram above.
Use your counters to help you solve this problem.

Todd is arranging 12 chairs into rows. All the rows will have an equal number of chairs. In each box below, show a different way Todd can arrange the chairs. Use a circle to show each chair.

**KEY**

〇 = 1 chair

Arrangement 1

Arrangement 2
Susan is making a beaded bracelet by following a pattern. She has already completed the first 10 rows of the bracelet, as shown below.

**Part A**

Draw square and round beads on Row 11 above to show the beads that Susan should use to continue the pattern.
**Part B**

On the lines below, explain how you chose which beads to draw on Row 11.

__________________________

__________________________

__________________________

__________________________

**Part C**

How many square beads would there be in Row 16?

*Answer* ____________ square beads
Christi and Amy went to a pet store.

**Part A**

Christi bought a bag of hamster food that weighed 2 pounds. Each pound of hamster food costs $3.50. Write the missing sign (+, −, ×, or ÷) in the box below that would find the total cost of her hamster food.

\[ \$3.50 \square 2 = \text{total cost of hamster food} \]

**Part B**

Amy bought dog food and birdseed. She paid $4.00 for the dog food. The total cost for both the dog food and the birdseed was $12.25. How much money did Amy spend on birdseed?

*Show your work.*

**Answer** $ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_
Ron earns $2.00 an hour for doing yard work. He needs to earn $28.00 to buy a soccer uniform. Ron made the table below to record the number of hours he worked and the amount of money he earned each week.

### RON’S YARD WORK

<table>
<thead>
<tr>
<th>Week</th>
<th>Hours Worked</th>
<th>Money Earned</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>4</td>
<td>$8.00</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>$4.00</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
<td>$6.00</td>
</tr>
<tr>
<td>4</td>
<td></td>
<td>$28.00</td>
</tr>
</tbody>
</table>

How many **hours** does Ron need to work during Week 4 to earn a total of $28.00 for these four weeks?

**Show your work.**

**Answer** ____________ hours
A grocery store has 3 checkout stands. The table below shows the number of magazines sold at each checkout stand in one day.

### Magazine Sales

<table>
<thead>
<tr>
<th>Magazine Title</th>
<th>Number Sold</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Stand 1</td>
</tr>
<tr>
<td>Sports World</td>
<td>3</td>
</tr>
<tr>
<td>Craft Fun</td>
<td>2</td>
</tr>
<tr>
<td>News Today</td>
<td>5</td>
</tr>
</tbody>
</table>

**Part A**

How many of each kind of magazine were sold at the 3 checkout stands all together?

*Sports World* _________ magazines

*Craft Fun* _________ magazines

*News Today* _________ magazines
Part B

On the grid below, make a bar graph that shows the total number of each magazine sold at the 3 checkout stands.

Be sure to
• title the graph
• label the axes
• graph all the data
• provide the graph with a scale
Carly went to the fair. The map below shows the locations of the different rides at the fair.

**Part A**

Carly is on the Merry-Go-Round. What is the ordered pair for the location of the Merry-Go-Round on the map?

*Answer* (___, ___)

**Part B**

Carly wants to go on the ride located at (1, 4) on the map. What ride is it?

*Answer* ________________________________
Each month, Mrs. Feldman makes a different number of flashcards. She divides them equally among her 9 students. The table below shows the total number of flashcards Mrs. Feldman made each month for six months.

<table>
<thead>
<tr>
<th>Month</th>
<th>Total Flashcards</th>
<th>Flashcards Each Student Received</th>
</tr>
</thead>
<tbody>
<tr>
<td>September</td>
<td>72</td>
<td>8</td>
</tr>
<tr>
<td>October</td>
<td>27</td>
<td></td>
</tr>
<tr>
<td>November</td>
<td>45</td>
<td></td>
</tr>
<tr>
<td>December</td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>January</td>
<td>63</td>
<td></td>
</tr>
<tr>
<td>February</td>
<td>54</td>
<td></td>
</tr>
</tbody>
</table>

Complete the table above to show how many flashcards each student received in each of the six months.
The table below shows how many cartons of juice Sunrise Market sold in one day.

<table>
<thead>
<tr>
<th>Kind of Juice</th>
<th>Cartons Sold</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apple</td>
<td>🍏🍏🍏🍏</td>
</tr>
<tr>
<td>Cranberry</td>
<td>🍉🍊</td>
</tr>
<tr>
<td>Grape</td>
<td>🍇🍇🍇🍇</td>
</tr>
<tr>
<td>Orange</td>
<td>🍊🍊🍊🍊🍊🍊🍊🍊🍊-orange-1</td>
</tr>
</tbody>
</table>
At the beginning of the year, there were 1,945 greeting cards in Annie’s gift shop. During the year, she sold 781 cards and ordered 675 more cards for the shop. How many cards were in Annie’s gift shop at the end of the year?

*Show your work.*

*Answer* __________ cards
Ms. Peterson’s class sold flower seeds. The graph below shows the number of seed packets sold during 5 days.

**Part A**

What is the difference between the least number of packets sold in one day and the greatest number of packets sold in one day?

*Show your work.*

**Answer** ____________ packets
Part B

What is the mean (average) number of packets sold per day during the 5 days shown?

Show your work.

Answer ______________ packets
Amber and Luis began reading the same book on Monday.

• Amber reads two chapters every day until she finishes the book.
• Luis reads three chapters every day until he finishes the book.
• Amber will finish reading the book on Saturday.

Complete the table below to show the total number of chapters Amber and Luis have completed at the end of each day.

<table>
<thead>
<tr>
<th>Day</th>
<th>Amber</th>
<th>Luis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Monday</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Tuesday</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Wednesday</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thursday</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Friday</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Saturday</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

On what day will Luis finish reading the book?

Answer ____________________
Use your counters to help you solve this problem.

On Jan’s school bus, there are 4 girls and the rest of the students are boys. Exactly $\frac{1}{3}$ of the students on the school bus are girls.

**Part A**

How many boys are on Jan’s school bus?

*Answer* ___________ boys

**Part B**

On Jan’s school bus, $\frac{1}{2}$ of the girls have the name Ashley. How many girls are named Ashley?

*Answer* ___________ girls
Jacob has $2.95 in coins. He has 6 quarters and 12 dimes. The rest of his coins are nickels. How many nickels does Jacob have?

*Show your work.*

*Answer* _____________ nickels
Jasmine bought 26 pieces of fruit. She bought 6 oranges. She bought twice as many apples as oranges, and twice as many oranges as bananas. She also bought some pears.

In the table below, write the missing number for each type of fruit Jasmine bought.

<table>
<thead>
<tr>
<th>Fruit</th>
<th>Number Bought</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apples</td>
<td></td>
</tr>
<tr>
<td>Oranges</td>
<td>6</td>
</tr>
<tr>
<td>Bananas</td>
<td></td>
</tr>
<tr>
<td>Pears</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>26</td>
</tr>
</tbody>
</table>

On the lines below, explain how you found the number of pears.

________________________________________________________________________

________________________________________________________________________

________________________________________________________________________