Practice 1  Measuring Length

Measure each rope to the nearest inch.

Example

Rope A is about \( \boxed{3} \) inches.

The length of Rope A is more than 3 inches but less than 4 inches. It is nearer to 3 inches than to 4 inches. So, the length of Rope A is about 3 inches.

1.

Rope B is about \( \boxed{\phantom{000}} \) inches.

These rulers are smaller than in real life.
Measure each rope to the nearest inch.

2. [Diagram of a ruler showing a rope being measured.]

Rope C is about _________ inches.

3. [Diagram of a ruler showing a rope being measured.]

Rope D is about _________ inch.

Measure each ribbon to the nearest half inch.

Example

[Diagram of a ruler showing a ribbon being measured.]

Ribbon A is about _________ inches long.

The length of Ribbon A is more than 4 inches but less than 4 $\frac{1}{2}$ inches. It is nearer to 4 inches than 4 $\frac{1}{2}$ inches. So, the length of Ribbon A is 4 inches to the nearest half inch.
4. Ribbon B is about _______ inches long.

5. Ribbon C is about _______ inches long.

6. Ribbon D is about _______ inches long.
Measure each ribbon to the nearest quarter inch.

7. Ribbon E is about ________ inches long.

8. Ribbon F is ________ inches long.

9. Ribbon G is ________ inches long.

These rulers are smaller than in real life.
Estimate the length of each object to the nearest inch.

10. Bracelet A is about _______ quarters long.
11. It is about _______ inches long.

12. Bracelet B is about _______ quarters long.
13. It is about _______ inches long.

Estimate the length of the object to the nearest half inch.

14. Craftstick A is about _______ buttons long.
15. It is about _______ inches long.
Estimate the length of each object to the nearest half inch.

16. Craftstick B is about __________ buttons long.

17. It is about __________ inches long.

Fill in the blanks.
These are a 12-inch ruler and a yardstick.

The ruler and yardstick are smaller than in real life.

Name three objects that are 1 foot long each.

18. The three objects are ________________,
______________, and ________________.

Name three objects that are 1 yard long each.

19. The three objects are ________________,
______________, and ________________.

Name three objects that are longer than 1 foot but shorter than 1 yard.

20. ________________, ________________, and
______________ are longer than 1 foot but shorter than 1 yard.
Sarah is going on a treasure hunt.  
She is looking for objects that are about 1 yard long.

**Look at the objects she has found.  
Then sort them in the table.**

![Yardstick and objects]

<table>
<thead>
<tr>
<th>Objects less than 1 yard long</th>
<th>Object that are 1 yard long</th>
<th>Objects more than 1 yard long</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 yardstick</td>
<td>a piece of yarn</td>
<td></td>
</tr>
<tr>
<td>a film strip</td>
<td>Mr. Pellet's belt</td>
<td></td>
</tr>
<tr>
<td>a bath towel</td>
<td>a piece of masking tape</td>
<td></td>
</tr>
<tr>
<td>a ribbon</td>
<td>a pool float</td>
<td></td>
</tr>
</tbody>
</table>

21.

1 yardstick is smaller than in real life.
Complete.
Use the map to help you.

22. The distance between Camp Evergreen and Camp Birch is _________ mile.
23. The distance between Camp Birch and Bay Station is about _________ mile.
24. The distance between Camp Birch and Camp Maple is _________ yards.
25. Camp _________ is nearer to Bay Station than Camp _________.
26. The distance between Camp Plane and Camp Birch is slightly less than 1,760 _________.

Choose the unit that you would use to measure each.
Write inch, foot, yard, or mile.

27. The length of a hiking trail _________
28. The length of an airplane _________
29. The height of a teacher _________
Practice 2  Measuring Weight
Ms. Meyer bought some meat, fruit, and vegetables for her Thanksgiving party. Read the scales and write the weights.

1. The mushrooms weigh about __________ ounces.

2. A slice of bread is about 1 ounce. The cranberries weigh about __________ ounces.

3. The leg of lamb weighs about __________ pounds.
4. A loaf of bread is about 1 pound. The tomatoes weigh about ________ pounds.

5. The box of cereal weighs ________ ounces.

Choose the unit that you would use to measure each. Write ounces, pounds, or tons.

6. A cement truck weighs about 5 ________.

7. A package of butter weighs about 16 ________.
8. A bowling ball weighs about 9 ________.

9. A mushroom weighs about 1 ________.

10. A carton of milk weighs about 12 ________.
Make a guess.
Decide which animals weigh more than 1 ton and which weigh less than 1 ton.
Check your answers using the Internet or an encyclopedia.

<table>
<thead>
<tr>
<th>More than 1 ton</th>
<th>Less than 1 ton</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elephant</td>
<td>Monkey</td>
</tr>
<tr>
<td>Pig</td>
<td>Dog</td>
</tr>
<tr>
<td>Whale</td>
<td></td>
</tr>
</tbody>
</table>

11.
Practice 3  Measuring Capacity

Find the capacity of each container.

1. The pitcher can hold _______ cups of water.

2. The pitcher has a capacity of _______ cups.

3. The vase can hold _______ pints of water.

4. The vase has a capacity of _______ pints.

5. The carton can hold _______ cups of milk.

6. The carton has a capacity of _______ cups.
Find the capacity of each container.

7. The pot can hold ________ quarts of soup.
8. The pot has a capacity of ________ quarts.
9. The bathtub can hold ________ gallons of water.
10. The bathtub has a capacity of ________ gallons.
11. This container can hold ________ cups of juice.
12. This container has a capacity of ________ cups.
Match.

13. 

1 pint

1 pint

- 1 gal

- 2 qt

- 1 qt

- 1 pt

- 1 pt

- 1 pt
Put On Your Thinking Cap!

Challenging Practice

Follow the directions to complete the drawing.

Step 1  Join the top of the lines at each end of the bus.

Step 2  Find the length of the bus in inches.

Step 3  Draw 3 square windows. Each has sides that are $\frac{1}{2}$ inch long.

Step 4  The windows are $\frac{1}{2}$ inch from the top of the bus.

Step 5  Draw a door between the two wheels. The height of the door is 1 inch. The width is $1\frac{1}{2}$ inches.

Step 6  Find the height from the top of the windows to the bottom of the bus to the nearest inch.

Step 7  Color and decorate your bus.

Length of bus

Height of bus
Put On Your Thinking Cap!

Problem Solving

The veterinarian at City Zoo keeps track of how much water each animal drinks in a period of time. Decide which animal drinks the greatest amount of water and fill in the blank.

- Elephant: 20 one-gallon containers and 20 one-quart containers.
- Lion: 40 one-quart containers and 3 one-gallon containers
- Giraffe: 20 one-quart containers and 5 one-gallon containers
- Zebra: 3 one-gallon containers and 3 one-quart containers

The ________ drinks the greatest amount of water.