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## Sam's Measurements

1. Sam and his dad measured lengths with their footprints. Their measurements are listed below. They forgot to label their measurements.
A. Which measurements belong to Sam's dad and which belong to Sam? Write "Sam's Dad" or "Sam" above each column.

| Distance |  |  |
| :---: | :---: | :---: |
|  | Footprints | Footprints |
| Length of <br> Sam's Bed | 30 | 10 |
| Width of <br> Sam's Bed | 9 | 3 |

B. Tell how you decided.
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$\qquad$
2. Sam has an identical twin brother named Josh. Josh measured the length of Sam's bed with his footprints. What answer do you think he would get? Why?


Sam measured lines of tape using deer footprints and elephant footprints. He collected his data in the chart below.

| Distance | Deer Footprints | Elephant Footprints |
| :--- | :---: | :---: |
| Line P | 12 | 3 |
| Line Q | 16 | 4 |
| Line R | 4 | 1 |

3. Compare the lengths. Use $<,>$, or $=$.
A. 3 deer footprints $\square$ 3 elephant footprints
B. Line $P$
 Line Q
C. Line Q
 Line R
4. Compare the length of Line $R$ to the length of Line $P$.
A. Which is longer? $\qquad$
B. How much longer? Write a number sentence to show how you solved the problem.

Number sentence
$\qquad$
$\qquad$
5. Sam decided to measure the length of Line $P$ in squirrel footprints. He made an estimate and so did his brother Josh.


Do you agree with Josh or Sam? Explain.
6. Decide if each statement "could be" or is "crazy." Circle one. Be ready to tell how you decided.
A. Sam estimated that the length of Line $P$ to be about 6 squirrel footprints.
could be crazy
B. Sam and his brother measured the length of the same room. Sam found the room was 8 elephant footprints and Josh found the room was 32 deer footprints.
could be crazy

Tell how you decided. $\qquad$

Name
Date $\qquad$

| Sam's Measurements Feedback Box | Expectation | Check In | Comments |
| :---: | :---: | :---: | :---: |
| Use words and symbols (e.g., <, >, =) to show comparisons of quantities (e.g., lengths). [Q\# 3-4] | E1 |  |  |
| Use and apply place value concepts and comparative language to compare and order lengths (e.g., shorter, longer, shortest, longest). [Q\# 3] | E2 |  |  |
| Solve word problems (e.g., compare) involving length. [Q\# 4] | E3 |  |  |
| Recognize that the measure of a length is dependent on the size of the unit of measure (e.g., a pencil is 6 inches or 15 centimeters). [Q\# 1-2, 5-6] | E4 |  |  |
| Estimate length using nonstandard units (palms and footprints). [Q\# 5-6] | E5 |  |  |



