



Name: _____

**Grade 6 - Benchmark 1
Constructed Response**

Solve the problem below. Show your work in the box.

Jar of Jelly Beans

A jar is filled with jelly beans in 4 different colors: red, white, yellow, and orange.

Clues

- There are 20 red jelly beans in the jar.
- There are 10 fewer white jelly beans than yellow jelly beans.
- There are half as many orange jelly beans as red jelly beans.
- There are twice as many yellow jelly beans as red jelly beans.

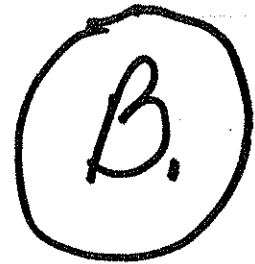
If you randomly choose a jelly bean from the jar, what is the probability that you choose a red jelly bean? 20/100

Show your work. Using your results and what you know about probability, explain your answer.

$$\begin{array}{r}
 20 \text{ red} \\
 10 \text{ orange} \\
 40 \text{ yellow} \\
 + 30 \text{ white} \\
 \hline
 100 \\
 \\
 \frac{20}{100}
 \end{array}$$

I added all of the jelly beans. Then I put the probability answer into a fraction. The orange jelly beans were half of the red. The white were 10 less than yellow. The red jelly beans were 20 and yellow was 40.

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If you randomly choose a jelly bean from the jar, what is the probability that you choose a red jelly bean? $\frac{1}{5}$ chance

Show your work. Using your results and what you know about probability, explain your answer.

$$\begin{array}{r} 10 \text{ orange} \\ 2 \overline{)20} \text{ red} \\ \underline{20} \\ 00 \\ \underline{-00} \\ 0 \end{array}$$

$$\begin{array}{r} 20 \\ \times 2 \\ \hline 40 \text{ yellow} \\ + 10 \\ \hline 30 \text{ white} \end{array}$$

$$\begin{array}{r} 40 \text{ yellow} \\ 10 \text{ orange} \\ 30 \text{ white} \\ + 20 \text{ red} \\ \hline 100 \end{array}$$

$$20 \div \frac{20}{100} = \frac{1}{5}$$

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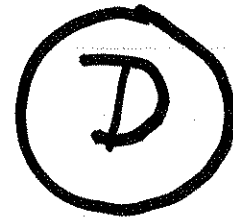
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If you randomly choose a jelly bean from the jar, what is the probability that you choose a red jelly bean? 20 out of 100

Show your work. Using your results and what you know about probability, explain your answer.

20 red JB's
10 orange JB's
40 yellow JB's
30 white JB's

JB - Jelly beans



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If you randomly choose a jelly bean from the jar, what is the probability that you choose a red jelly bean? _____

Show your work. Using your results and what you know about probability, explain your answer.

20
40
30
+10
100

Red = 20

Yellow = 40

White = 30

Orange = 10

first I saw how many red jelly beans there were. There were 20 red jelly beans.

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If you randomly choose a jelly bean from the jar, what is the probability that you choose a red jelly bean? 20 out of 100

Show your work. Using your results and what you know about probability, explain your answer.

Red = 20
White = 30
Orange = 10
Yellow = 40

I got 4 yellow by multiplying or it twice to get 40. Then I $\times 2$ subtracted 10 from 40 $\frac{40}{10}$ to equal the white, which is 30. If there 20 red jelly beans, then half of that is 10, to equal the orange jelly beans. I used subtraction and multiplacation. If you were to pick a red jellybean, your chance is $\frac{20}{100}$ or $\frac{1}{5}$.

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If you randomly choose a jelly bean from the jar, what is the probability that you choose a red jelly bean? 20-140

Show your work. Using your results and what you know about probability, explain your answer.

red = 20 j. 20
orange = 10 j. 10 20 - 140
yellow = 60 j. 60 20 x 2 = 40
 + 50
white = 50 j. 140

I got my answer by knowing that there is 20 red j. Then I skip the clue for white, and go to the orange j. It says half as many then red j. Half of 20 is 10 so it's 10. Then I went to the yellow j. I know 20 x twice = 60. Now I go 60 - 10 = 50 j. ^{white}