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? \[ \frac{20}{100} \]

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

\[ \frac{20}{100} \]

I added all of the jelly beans. Then I put the probability 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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- 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? 1/5

Show your work. Using your results and what you know about probability, explain your answer.
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  • 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?  \textbf{20 out of 100}

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

\begin{itemize}
  \item 20 red JBs
  \item 10 orange JBs
  \item 40 yellow JBs
  \item 30 white JBs
\end{itemize}
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Clues
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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.

\[
\begin{align*}
&\text{Red} = 20 \\
&\text{Yellow} = 40 \\
&\text{White} = 30 \\
&\text{Orange} = 10
\end{align*}
\]

(first I saw how many red jelly beans there were. There were 20 red jelly beans.)
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Solve the problem below. Show your work in the box.

Jet 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 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 x 2
Subtracted 10 from 40 to equal the white which is 30. If there 20 red jellybeans, then half of that is 10, to equal the orange jellybeans. I used subtraction and multiplication.
If you want to pick a red jellybean your chance is 20/100 or 1/5.
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• There are 10 fewer white jelly beans than yellow jelly beans.
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• 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?

\[ \frac{20}{140} \]

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

\[
\begin{align*}
\text{red} &= 20 \\
\text{orange} &= 10, 60 - 20 = 40 \\
\text{yellow} &= 60, 20 \times 2 = 40 \\
\text{white} &= 50, \frac{150}{140} \\
\end{align*}
\]

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