/ 35		1.47		
Name	g			

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Three of your best friends give you some advice.

Susan suggests that you pick two jelly beans from bowl 1.	Todd advises you to pick both jelly beans from bowl 2.	Jamie tells you that you should pick one jelly bean from each bowl.
---	--	---

Think this through carefully! Ms. Chievous will have the camera rolling as you eat each jelly bean. Whose

advice should you follow?

Tamil

because rou have a 6000 chance then 66.6% Chance whichis a better CG ancr

Explain your reasoning thoroughly enough to convince us that you are making the best out of your lucky day. because $= \frac{2}{5}$ Rotten = 33.3%. Cocontinue us that you are making the best out of = 33.3%. Cocontinue = 33.3%. Virginia Department of Education 2019 = 66.6%

Grade 8 Task

todd

4 3 6 5 66.6% 60% 5 u San STUDENT A

 $\frac{3}{5}$ $\frac{2}{4}$ 60.06 50%

Name	

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$$coconut = \frac{3}{3}$$

 $soap = \frac{3}{3}$

butter pop. =
$$\frac{4}{2} = \frac{2}{1}$$



you're chances
of getting anothe

s=soap P=popcorn C=coconut R=rotten egg

likely hood of you getting

likely hood of you getting

what you want is a vs.

what you and a greater

bowl a nos a greater

bowl a nos a greater

chance of a on your

chance of a on your

second turn however,

second turn however,

it you got popcorn,

it you got popcorn,

it you ratio would be a

you ratio would be a

you ratio would follow Todd

you could follow Todd

or Jamies advice for

there

there

there

you might

advice or you might

You could also pick

I first from bowl

I one. If you get

what you would

the you would

the you solo

have a of getting

chance the next

time. Then you

should yo to

bould have a

bowl have a

better chance

better of getting

puttered popcorn

Name			

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Explain your reasoning thoroughly enough to convince us that you are making the best out of your lucky day.

the Yhavethe Same adds

STUDENT C

BOW! 1 a Assistants

6=0,3=30%

 $\frac{12}{30} = 0.4 = 40\%$

$$\frac{3}{5} \cdot \frac{2}{4} = 0.3 = \frac{4}{6} \cdot \frac{3}{5} = 0.4$$

$$\frac{3}{5} \cdot \frac{2}{4} = 0.3 = \frac{4}{6} \cdot \frac{3}{5} = 0.4$$

$$\frac{4}{6} \cdot \frac{3}{5} = 0.4$$

A REBERTALIS

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STUDENT D

40% of picking soap 60% of picking coconst 33.33% of picking rotton egg most likely to Jibean 66.66% of picking Buttered popcorn leas+ likely _ # 36.36% of picking a bad jellybean to pick 2 biad and 7 63.63% of picking a good bear

> Bowl 2 would be the best to choose from, because you're least likely to pick a bad bean.

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$$\frac{3}{5} \cdot \frac{2}{4} = \frac{6}{20} = \frac{3}{10} = \frac{30}{6}$$

1

2 J.b. from bowl 1 = susan

BOW1 1+2

$$\frac{3}{5} \cdot \frac{4}{0} = \frac{12}{30} = \frac{2}{5} = \frac{40}{0}$$

1

1 from each bowl = Jamic

- 1-10 760

"It's your IUCKY day!"

Bowl

STUDENT E

Total of 6

$$\frac{4}{60} \cdot \frac{3}{5} = \frac{12}{30} = \frac{4}{10} = \frac{2}{5} = \frac{40}{6}$$

2 j.b. from bowl 2 = todd

You could follow Jamie's advice or Todd's advice because you would have the same chance.
This is similar to my thinking before because I had the same answer but I didn't use the

The reason way the second numbers we mutiplyed are lower than the first is because it is a dependent varible, which means you don't replace it. And you can't replace it because when you eat something you can't replace it.

best mathmatical stragies.

You also have to focus on the Positive Side of things in probability

Personally I Would follow Todd's because I don't like coconut and you have the highest chance (the same as Jamie's) to get a good Jelly bean.

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Todd

Explain your reasoning thoroughly enough to convince us that you are making the best out of your lucky day.

I would choose Todd because he has a 40% probability of getting a goodjelly bean. But, so does tamie! However, if you figure out who has a higher chance of getting a badjelly bean. Tamie has a higher chance. Therefore, Todd is a better answe Grade 8 Task

Virginia Department of Education 2019

$$\frac{4}{6} \cdot \frac{3}{5} = \frac{12}{30} = \frac{4}{10} = \frac{2}{5} = 40^{\circ}10$$

$$\frac{3}{5} \cdot \frac{4}{6} = \frac{17}{30} = \frac{4}{10} = 40\%$$

STUDENT F