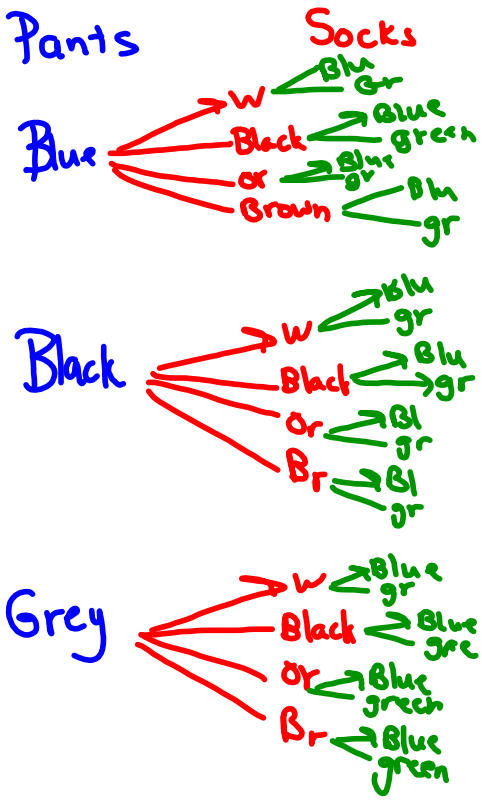
Warm Up Grade 7

Make a tree diagram for all the possible outfits if you have to choose pants, shirt and socks

Pants choices: Blue Jeans, Black Jeans, Grey Sweats

Socks: White, Black, Orange, Brown

Shirt: Blue or Green



Shirts } Outfits

Blue, Wh, Blue
Blue Wh Gr
Blue Black Blue
Blue Black Gre
Blue Or Blue
Blue Or Gree
Blue Br Blue
Blue Br Gre

Black Wh, Blue
Black Wh Gr
Black Black Blue
Black Black Gre
Black Or Blue
Black Or Gree
Black Br Blue
Black Br Gre

Grey, Wh, Blue
Grey Wh Gr
Grey Black Blue
Grey Black Gre
Grey Or Blue
Grey Or Gree
Grey Br Blue
Grey Br Gre

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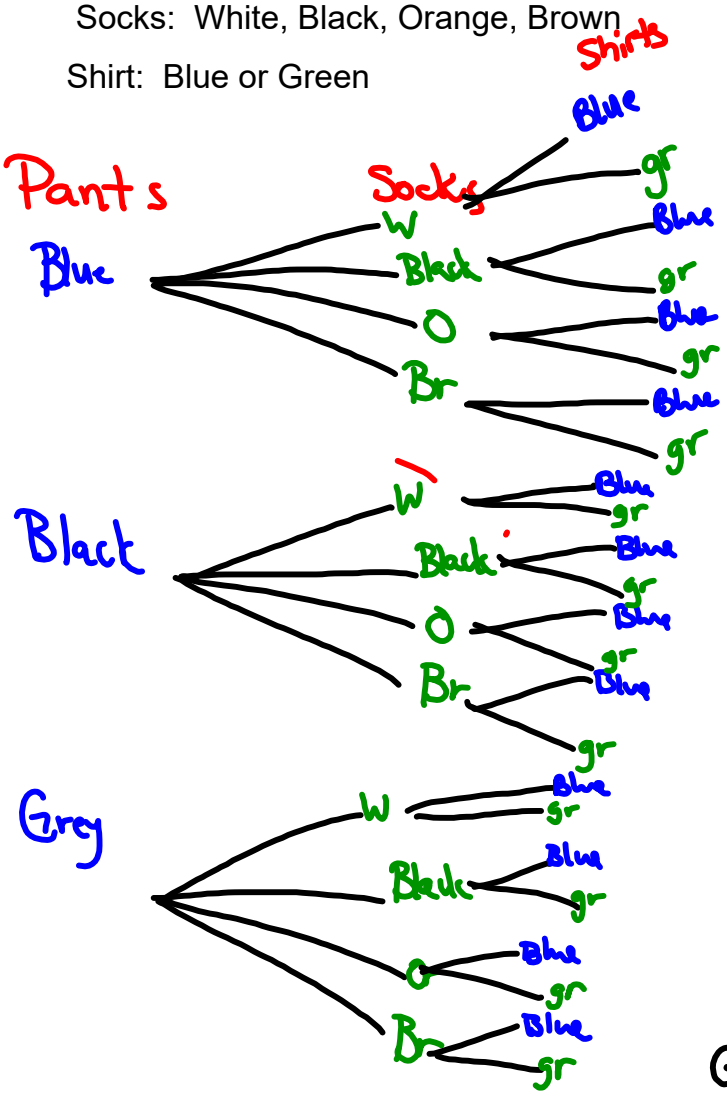


outcomes
Pants/Sock/Shirt

Blue/W/Blue
Blue/W/gr
Blue/Black/Blue
Blue/Black/gr
Blue/Or/Blue
Blue/Or/green
Blue/Br/Blue
Blue/Br/gr

Black/W/Blue
Black/W/gr
Black/Black/Blue
Black/Black/gr
Black/O/Blue
Black/O/green
Black/Br/Blue
Black/Br/gr

G/W/Blue
G/W/Green
G/Black/Blue
G/Black/gr
G/O/Blue
G/O/Green
G/Br/Blue
G/Br/green

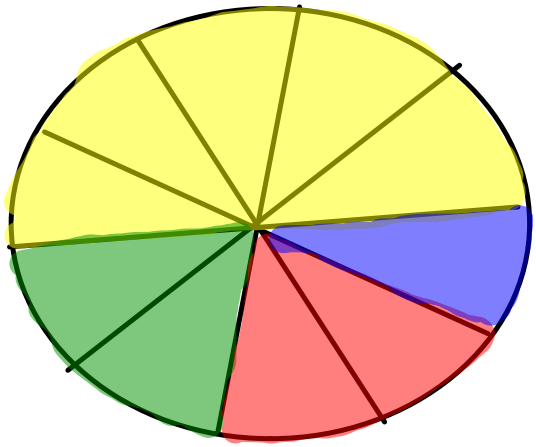
Pg 283

7. Red $\frac{1}{5}$ $\frac{2}{10}$

Yellow 50% $\frac{5}{10}$

Blue 1:10 $\frac{1}{10}$

Green $\frac{2}{10}$ $\frac{2}{10}$



10 equal sections

I make each color an equivalent fraction out of 10, then divide the spinner into 10 equal sections.

8. 7 candies remaining
2 red, 2 green, 3 white

Prob (red) $\frac{2}{7}$

Prob (green) $\frac{2}{7}$

Prob (white) $\frac{3}{7}$

c) Prob (not red) $\frac{5}{7}$

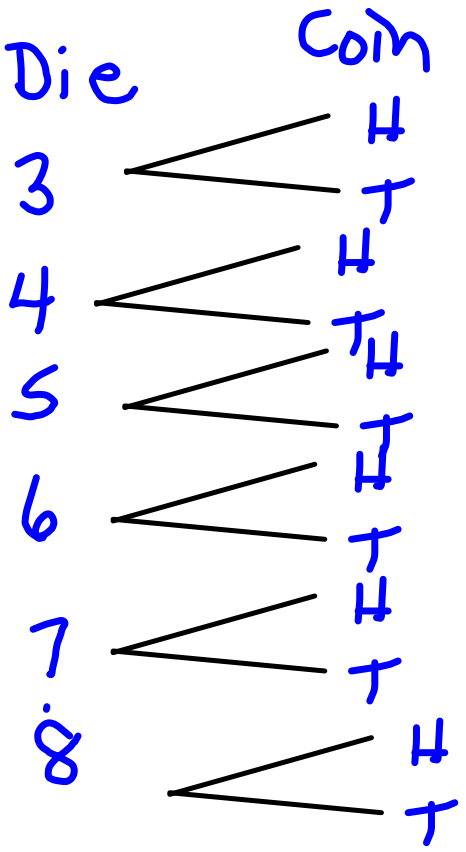
Prob (not green) $\frac{5}{7}$

Prob (not white) $\frac{4}{7}$

Reflect

Pg 287

1a)



2. Prob (odd^{er}, heads) $\frac{9}{12}$

Aseca

Prob (less than 5) $\frac{4}{12}$

Roberto

Aseca is more likely to win.

b) Die Spinner Outcomes

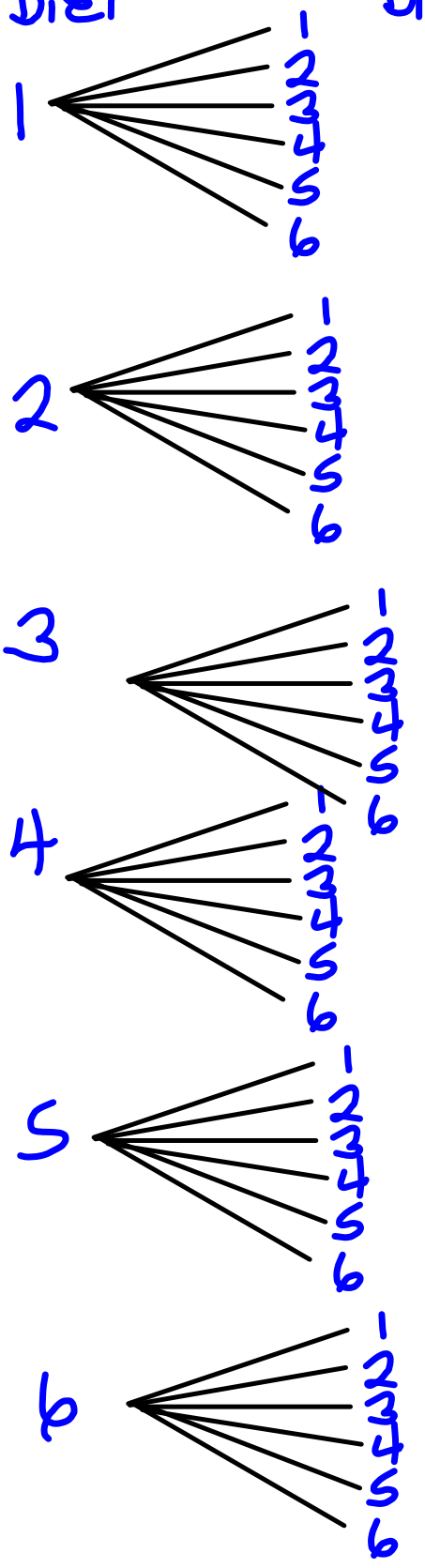
Prob ( ) = $\frac{1}{2}$

→ rolling one or two

→ even

→ odd

c) Die 1

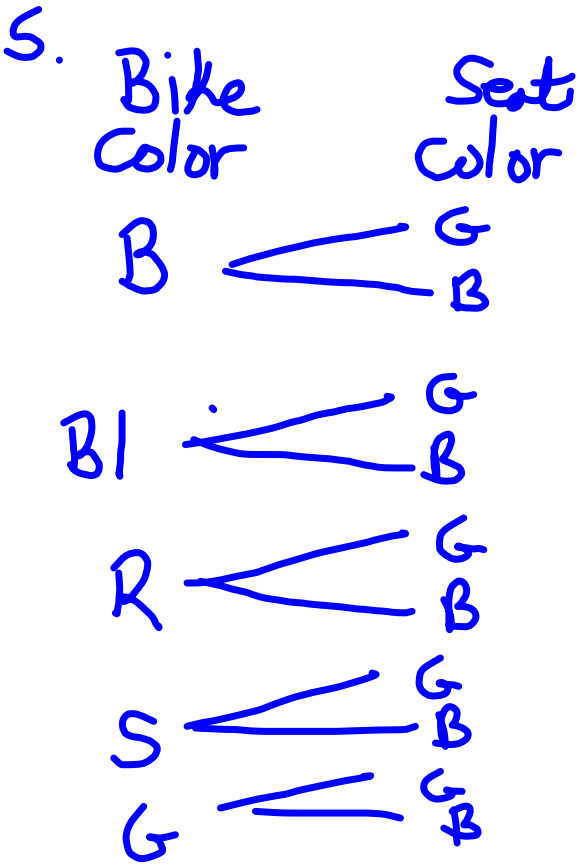


Die 2

1,1	1,4	
1,2	1,5	
1,3	1,6	
2,1	2,4	
2,2	2,5	
2,3	2,6	
3,1	3,4	
3,2	3,5	
3,3	3,6	
4,1	4,4	
4,2	4,5	
4,3	4,6	
5,1	5,4	
5,2	5,5	
5,3	5,6	
6,1	6,4	
6,2	6,5	
6,3	6,6	

4. Prob (both > 4) $= \frac{4}{36}$

5.



B - Black Bl - Blue

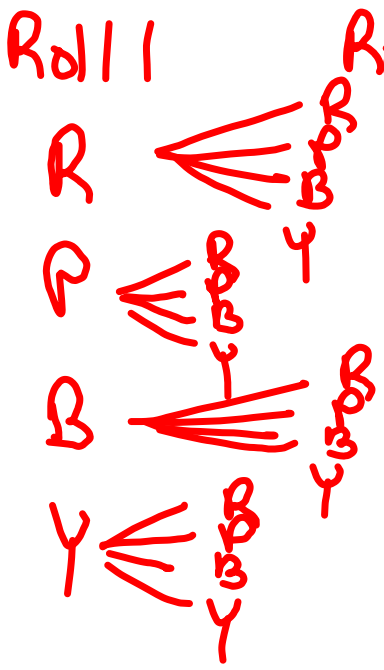
Outcomes

B, G
B, B
Bl, G
Bl, B
R, G
R, B
S, G
S, B
G, G
G, B

b) Prob(Silver or Black with Grey Seat)

$= \frac{2}{10}$

6. Roll Tetrahedron twice



16 possibe outcomes

2 ways to make green

$\frac{2}{16}$

Tetrahedron and Spinner

$4 \times 5 \Rightarrow 20$ possible outcome

$\frac{2}{20}$

Spinner

$5 \times 5 \Rightarrow 25$ possible outcomes

B → Y

Y → B

$\frac{2}{25}$

Best Chance of Winning with rolling 2 tetrahedron die.

Extra Practice 6 # 1 c,d, 2, 3 d,e

pg. 292 # 1-4

Unit 7 Data Analysis Test 2 days time

diff
Big-Small

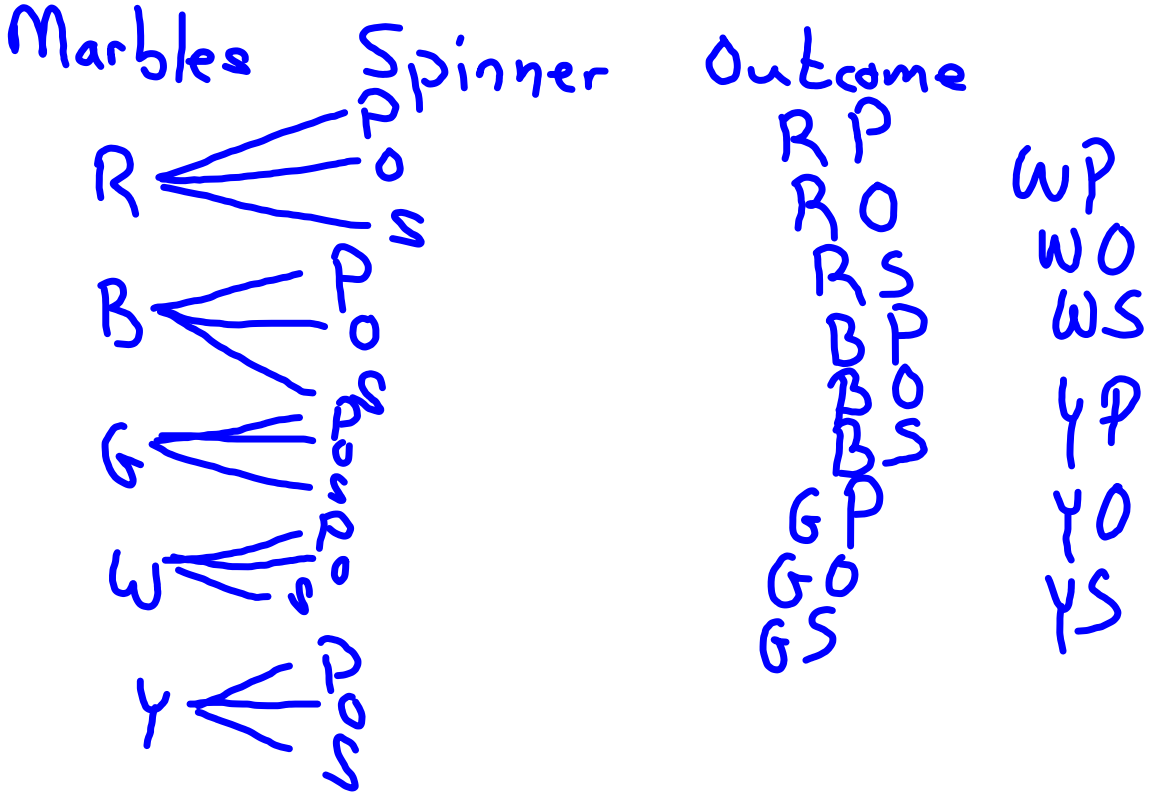
1	1
1	2
1	3
1	4
1	5
1	6

21	31	41
22	32	42
23	33	43
24	34	44
25	35	45
26	36	46

$P(\text{Diff zero or 1}) = \frac{11}{24}$

Marbles in bag - Red, Blue, Green, White, Yellow

Spinner - 3 equal Pieces → Pink, Orange, Silver



Attachments

Extra Practice 6 tree.pdf