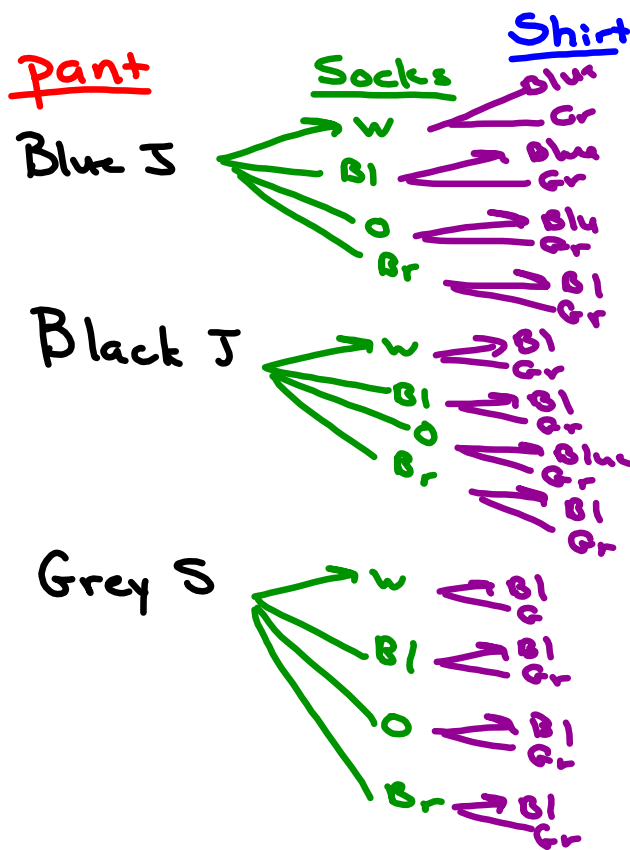**Warm Up Grade 7**

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
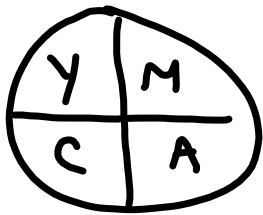
Socks: White, Black, Orange, Brown

Shirt: Blue or Green

Pant   **Socks**   **Shirt**

Blue J
- W → Blue, Gr
- Bl → Blue, Gr
- O → Blu, Gr
- Br → Bl, Gr

Black J
- W → Bl, Gr
- Bl → Bl, Gr
- O → Blue, Gr
- Br → Bl, Gr

Grey S
- W → Bl, G
- Bl → Bl, Gr
- O → Bl, Gr
- Br → Bl, Gr

outcomes
Pants / Sock / Shirt

BlueJ / W / Blue
BlueJ / W / Green
BlueJ / Bl / Blue
BlueJ / Bl / Gr
BlueJ / O / Blue
BlueJ / O / Green
BlueJ / Br / Blue
BlueJ / Br / Green

BlackJ / W / Blue
BlackJ / W / Green
BlackJ / Black / Blue
BlackJ / Black / Green
BlackJ / O / Blue
BlackJ / O / Green
BlackJ / Br / Blue
BlackJ / Br / Green

Gr / W / Blue
Gr / W / Green
Gr / Bl / Blue
Gr / Bl / Green
Gr / O / Blue
Gr / O / Green
Gr / Br / Blue
Gr / Br / Green

$$P(A) = \frac{1}{4} = 0.25 = 25\%$$

$$\frac{3}{6} \begin{array}{c} \div 3 \\ \div 3 \end{array} = \frac{1}{2}$$

Attachments

Extra Practice 6 tree.pdf