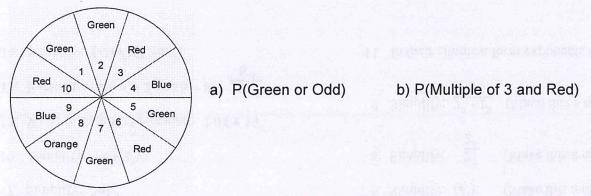
Bellwork Alg 2B Wednesday, April 18, 2018

1. Use the spinner below to find each probability. Give answer as a fraction without reducing.



- c) P(Factor of 24 or Blue)
- d) P(Prime and Orange)
- e) P(Even | Red)
- 2. This semester the probability that you schedule a science class is $\frac{4}{11}$ and the probability that you schedule a history class is $\frac{3}{8}$. Find each probability as a percent to the nearest tenth.
- a) Find the probability that your schedule for this semester contains a science class or a history class.

P(Science or History)=

b) Find the probability that for 1st hour you will schedule a science class or a history class.

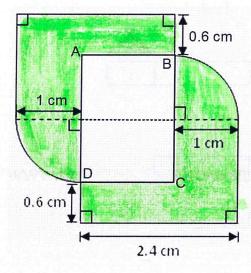
P(Science or History)=

3. In your pocket you have the following coins: 5 dimes, 4 nickels, and 3 quarters. You randomly take out a coin and put it in the vending machine, etc. Find the following probability as a fraction without reducing:

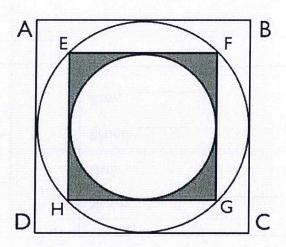
P(Quarter then Dime then Nickel then Dime) =

For 4 and 5, find the probability that a point picked at random in the figures is in the shaded region as a percent to the nearest tenth.

4. ABCD is a rectangle



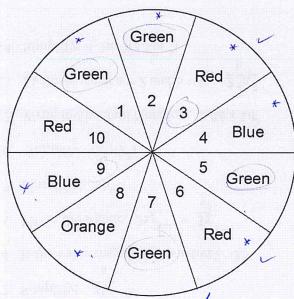
5. ABCD and EFGH are squares. AB = 4 in.



Bellwork Alg 2B

Wednesday, April 18, 2018

1. Use the spinner below to find each probability. Give answer as a fraction without reducing



- a) P(Green or Odd) = 6
- b) P(Multiple of 3 and Red) =
- c) P(Factor of 24 or Blue) = $\frac{7}{10}$ d) P(Prime and Orange) = $\frac{6}{10}$ e) P(Even | Red) = $\frac{2}{3}$
- 2. This semester the probability that you schedule a science class is $\frac{4}{11}$ and the probability that you schedule a history class is $\frac{3}{8}$. Find each probability as a percent to the nearest tenth.
- a) Find the probability that your schedule for this semester contains a science class or a history class.

NOT MUTUALLY EXCLUSSIVE You might take both classes this semester

P(Science or History)=
$$\frac{4}{11} + \frac{3}{8} - \frac{4}{11} \cdot \frac{3}{8} = \frac{66}{10.2}$$

b) Find the probability that for 1st hour you will schedule a science class or a history class.

Mutually Exclusive you can't take both classes 15th

P(Science or History)= $\frac{4}{11} + \frac{3}{6} = (73.9\%)$

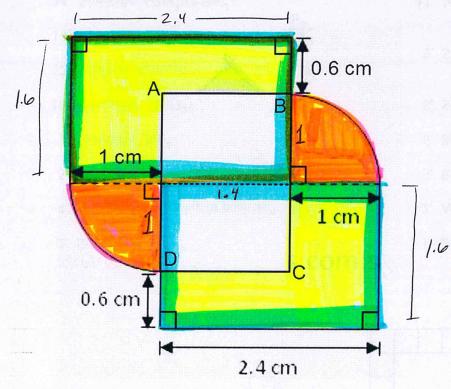
3. In your pocket you have the following coins: 5 dimes, 4 nickels, and 3 guarters. You randomly take out a coin and put it in the vending machine, etc. Find the following probability as a fraction without reducing:

P(Quarter then Dime then Nickel then Dime) =

$$\frac{3}{12} \cdot \frac{5}{11} \cdot \frac{4}{10} \cdot \frac{4}{9} = \frac{240}{11880}$$

For 4 and 5, find the probability that a point picked at random in the figures is in the shaded region as a percent to the nearest tenth.

4. ABCD is a rectangle



Area of Target = 2 RECTANGLES
+ Semicircle

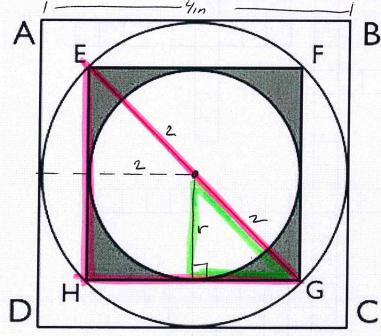
$$2(2.4)(1.6) + \frac{1}{2}\pi(1)^{2}$$

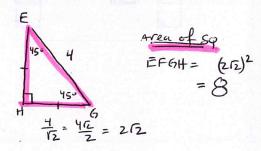
= $7.68 + \frac{\pi}{2}$

$$p(\text{shaded enegion}) = \frac{4.68 + \frac{11}{2}}{7.64 + \frac{11}{2}}$$

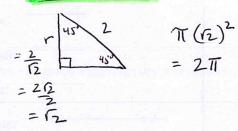
$$= 69.7\%$$

5. ABCD and EFGH are squares.
$$AB = 4$$
 in.





Aron of sm circle



$$P(\text{shaded area}) = \frac{8-2\pi}{16} = 10.7\%$$