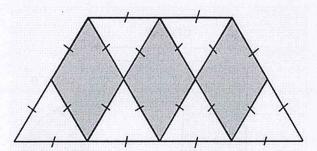
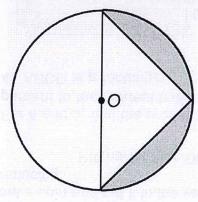
## Bellwork Alg 2B Thursday, April 19, 2018

1. All the segments marked with tic marks are 5cm long. Find the probability that if you pick a point at random in the figure it will be in the Shaded Region. Give answer as a percent to the nearest tenth.



P(Shaded Region) =

2. The triangle is isosceles with its base passing through the center of Circle O. The radius of the circle is 20 cm. Find the probability that a point picked at random in the circle is in the shaded region. Give answer as a percent to the nearest hundredth.

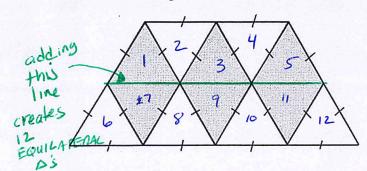


P(Shaded Region) =

- 3. There are nine people participating in a raffe. Three \$50 gift cards from the same store are to be given out as prizes. How many ways can the gift cards be awarded?
- 4. A multiple choice test contains five questions, and each question has four possible response. How many different answer keys are possible?
- 5. How many different arrangements of the letters in the word ALLOWABLE are possible?
- 6. A crate of toy cars contains 10 working cars and 4 defective cars. How many ways can 5 cars be selected if only 3 work?

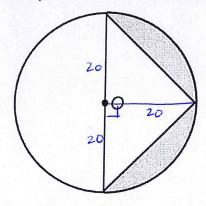


1. All the segments marked with tic marks are 5cm long. Find the probability that if you pick a point at random in the figure it will be in the Shaded Region. Give answer as a percent to the nearest tenth.



$$P(Shaded Region) = \frac{6}{12} = 50\%$$

2. The triangle is isosceles with its base passing through the center of Circle O. The radius of the circle is 20 cm. Find the probability that a point picked at random in the circle is in the shaded region. Give answer as a percent to the nearest hundredth.



$$P(\text{Shaded Region}) = \frac{200\pi - 400}{400\pi} = 18.17\%$$

$$\frac{400\pi}{2} - \frac{1}{2}(40)(20) = 200\pi - 400$$

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