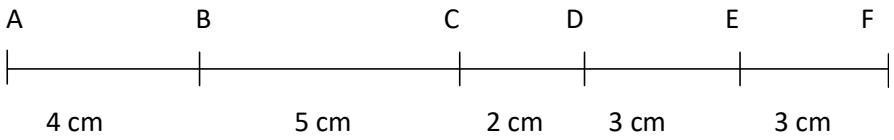
Name: _____ Date: _____

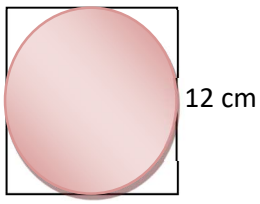
WS 8.3 Geometric probability

1) We randomly choose a point on segment $\overline{AF}$ below. What is the probability that this point will be located on $\overline{BC}$?

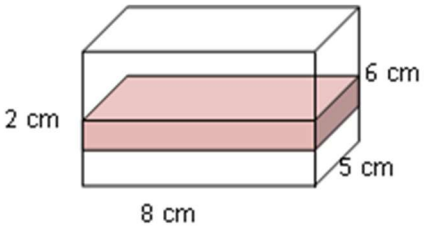


2) We randomly choose a point on the sides of a rectangle ABCD on the right. What is the probability that it will be located on side AD?

3) We randomly choose a point in the square on the right. What is the probability that it will be located in the coloured disk?

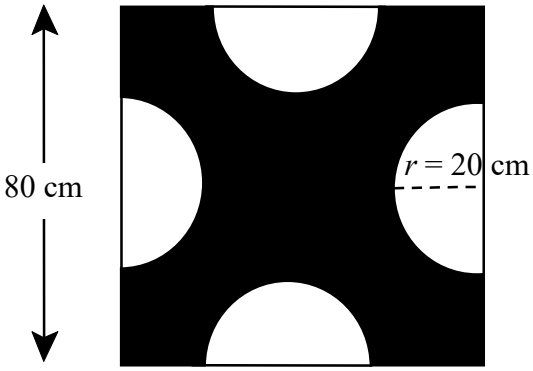


4) We randomly choose a point in the right prism on the right. What is the probability that it will be located in the coloured prism?



5) Four white half-circles of radius 20 cm each were painted on a black square target measuring 80 cm a side. If all darts thrown reach the target;

What is the probability that a randomly thrown dart hits the **black** section of the target?



a) 20%

b) 25%

c) 39%

d) 61%