Name:

An unfair die has the following probability distribution:

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Outcome	Probability
1	0.3
2	0.25
3	0.2
4	0.1
5	0.1
6	0.05

Find the probability that a roll is:

a) even

$$Pr(roll is 2) + Pr(roll is 4) + Pr(roll is 6)$$

= 0.25 + 0.1 + 0.05
= 0.4

b) less than or equal to 3

$$Pr(n||is|) + Pr(n||is2) + Pr(n||is3)$$

= 0.3 + 0.25 + 0.2
= 0.75

c) less than 3

$$Pr(roll : s 1) + Pr(roll : s 2)$$

= 0.3 + 0.25
= 0.55

d) not equal to 3

= 0.8

$$\begin{aligned}
& | - Pr(m|| is 3) \\
&= 1 - 0.2 \\
&= 0.8 \\
&A \mid \text{ternatively} \\
&0.3 + 0.25 + 0.1 + 0.1 + 0.05
\end{aligned}$$