

Experimental Probability

$$\frac{42}{70} = 0.6 \times 100 = 60\%$$

unsuccessful

$$\frac{28}{70} = 0.4 \times 100 = 40\%$$

Successful

$$\frac{32}{50} \text{ red } \frac{16}{25} = 0.64 = 64\%$$

$$\frac{18}{50} = 0.36 = 36\%$$

experimental
possibility for
black card

$$= \frac{9}{25}$$

4a) 200 trials

black face card $\frac{30}{200} = \frac{3}{20} = 15\%$

black numbered card $\frac{68}{200} = \frac{17}{50} = 34\%$

49% $\rightarrow$ yes you would expect
50%

$$5. \quad p(2) = \frac{8}{15} = 0.53\overline{3} = 53\overline{3}\%$$

No, 16% is more likely

6a

$$\frac{5}{400} = 0.0125 \Rightarrow 1.25\%$$

yes, this batch is OK