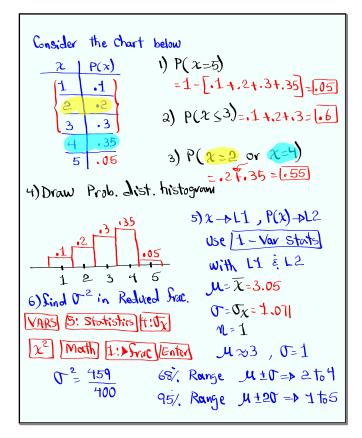
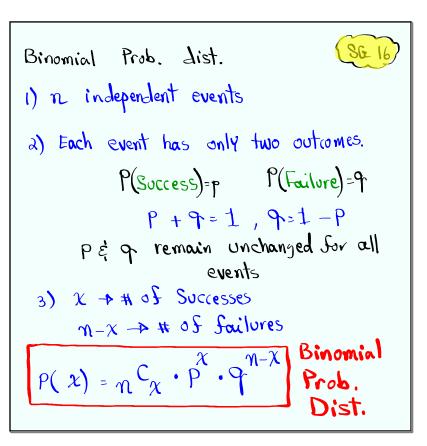


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Consider a binomial Prob. dist. with
$$n=8$$
 and $P=.6$.

1) $9=1-P=1-.6=1$

2) $P(x=5)=8^{2}C_{5}\cdot(.6)\cdot(.4)=1.279$
 $P(x)=m^{2}x\cdot p^{2}\cdot q^{m-2}x$

3) $P(x=4)=8^{2}C_{4}\cdot(.6)\cdot(.4)=1.22$

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I Slipped a Coin 10 times.

P(tails) = .
$$T$$

1) $\pi = 10$

2) $P = . 3$

4) $\pi P = 10(.7) = . 7$

5) $\pi P P = 10(.7)(.3) = . 7$

6) $P(\text{exactly 6 tails}) = P(x = 6)$
 $x = 6$
 $x =$

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Oct 16-12:50 PM

```
You are taking an exam.

20 questions, Each question has 4 choices, but only one correct choice per question. You are making random guesses.

1) M = 20

2) P = \frac{1}{4} = .25

3) Q = \frac{3}{4} = .75

4) P = 20(.25)

5) P = 20(.25)

7) P = 20(.25)

8) P = 20(.25)

1) P = 20(.25)

2) P = 20(.25)

2) P = 20(.25)

3) P = 3

3.75

2)

1) P = 20(.25)

1) P = 20(.25)

2) P = 20(.25)

3) P = 3

3.75

2) P = 3

3.75

4) P = 3

3.75

2) P = 3

3.75

4) P = 3

3.75

2) P = 3

3.75

4) P = 3

3.75

4) P = 3

4) P = 3

5) P = 3

6) P = 3

7) P = 3

8) P = 3

9) P = 3

9) P = 3

10 P = 3

11 P = 3

12 P = 3

13 P = 3

14 P = 3

15 P = 3

16 P = 3

17 P = 3

18 P = 3

19 P = 3

10 P = 3

10 P = 3

10 P = 3

11 P = 3

12 P = 3

13 P = 3

14 P = 3

15 P = 3

16 P = 3

17 P = 3

18 P = 3

19 P = 3

10 P = 3

10 P = 3

10 P = 3

11 P = 3

12 P = 3

13 P = 3

14 P = 3

15 P = 3

16 P = 3

17 P = 3

18 P = 3

19 P = 3

10 P = 3

10 P = 3

10 P = 3

11 P = 3

12 P = 3

13 P = 3

14 P = 3

15 P = 3

16 P = 3

17 P = 3

18 P = 3

19 P = 3

10 P = 3

10 P = 3

10 P = 3

11 P = 3

12 P = 3

13 P = 3

14 P = 3

15 P = 3

16 P = 3

17 P = 3

18 P = 3

19 P = 3

10 P = 3

10
```

Consider a binomial Prob. dist with
$$n = 400$$
 & $P = .8$

1) $q = 1 - P = .2$

2) $np = 400(8)$

3) $npq = 400(8)(2)$

2320

4) $npq = \sqrt{64} = 8$

5) $P(x = 325) = \frac{10000}{2} (400, .8, 325) = \frac{1042}{2}$

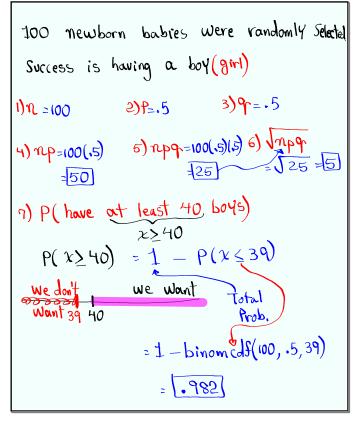
6) $P(x \le 330) = \frac{10000}{2} (400, .8, 330) = \frac{1000}{2}$

1) $P(x \le 310) = P(x \le 309)$

209 310

209 6

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```
9) P(\text{at least 45 have Sull recovery})

x \ge 45

P(x \ge 45) = 1 - P(x \le 44)

We don't we want

= 1 - \text{binomcdf}(50, .9, 44)

= 616

= 1 - \text{binomcdf}(50, .9, 44)

= 616

= 1 - \text{binomcdf}(50, .9, 44)

= 616

= 1 - \text{binomcdf}(50, .9, 44)

= 1 - \text{binomcdf}(50, .9, 44)

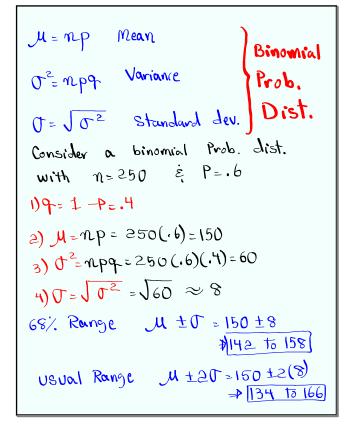
= 1 - \text{binomcdf}(50, .9, 46)

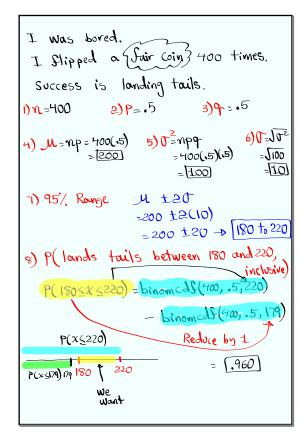
= 1 - \text{binomcdf}(50, .9, 38)

= 1 - \text{binomcdf}(50, .9, 38)
```

```
You are taking a multiple-choice exam
and making random guesses,
 There are 120 questions, 5 choices
 Per question, only one correct choice.
1) M = 120 2) P = \frac{1}{5} = .2 3) P = \frac{4}{5} = .8
4) np=120(.2) 5) np q=120(.2)(3) 6) Inpq
=24] -19.2 Round to
                                   1-decimal
7) P(Correctly guess between
           20 & 30, inclusive)
  P(20 \le x \le 30) = binomed(120, .2, 30) -
                       binom = 15(120, .2, 19)
                        Reduce by 1
       10000001
                            = \ .776
                   30
P(x<19) 19 20
```

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Oct 16-2:16 PM