

→ Fall 2014 Released AFM:

1) graph → table

A or

$$\text{max: } 8.5(1) + 12 = 20.5$$

$$\text{min: } 8.5(-1) + 12 = 3.5$$

2) mean = 50,000

B SD = 5,000

$$n = 15,000$$

between 45,000 and 55,000

normal cdf (45000, 55000, 50000, 5000)

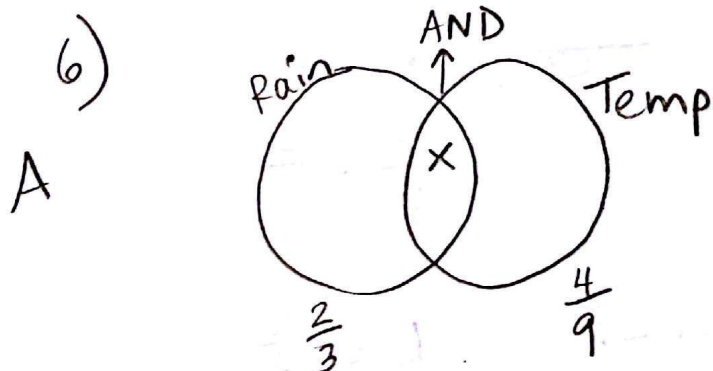
$$\bullet 68(15,000) = 10,240$$

3) B skewed right

$$4) \frac{3}{20}(1,000) = 150$$

B

$$5) \frac{10}{B} \cdot \frac{9}{1} \cdot \frac{2}{1} \cdot \frac{1}{1} \cdot \frac{8}{1} \cdot \frac{7}{1} \cdot \frac{6}{1} \cdot \frac{5}{1} \cdot \frac{4}{1} = 1209600$$



$$\text{rain} + \text{temp} - x = \frac{4}{5}$$
$$\frac{2}{3} + \frac{4}{9} - x = \frac{4}{5}$$
$$x = \frac{14}{45}$$

$$7) \text{ binompdf}(5, .04, 2) = .014$$

A

$$8) y = -\log_{10} x \quad y = \log_{10} x^{-1}$$

$$A \quad -y = \log_{10} x$$

$$10^y = \frac{1}{x}$$

$$10^{-y} = x$$

$$\frac{1}{10^y} = x$$

$$10^1 = \frac{1}{.1}$$

$$10^2 = \frac{1}{.01}$$

$$10^3 = \frac{1}{.001}$$

as  $y$  decreases  
by 1,  $x$  increases  
by factor of 10

$$(.01)(10) = .1$$

$$B \quad 9) y = \log_a 3$$

$$a^y = 3$$

$$y = a^x$$

$a$  to what power = 3

2.1

$$10) -2(3)^2 + 5(3) + 10$$

$$-18 + 15 + 10 = 7$$

B

$$2(3) + 3p = 7$$

$$6 + 3p = 7$$

$$3p = 1$$

$$p = \frac{1}{3}$$

15)  $a_5 = 3(5)^2 - 6 = 69$  Exp

C

$b_5 = 3(36 - 6) = 90$  Rec

$b_1 = 10$

$b_2 = 12$

$b_3 = 18$

$b_4 = 36$

16)  $r = \frac{1}{2}$

A

17)  $a_n = a_{n-1} + 2(n-1)$

$a_1 = 1$

$a_2 = 3$

$a_3 = 7$

$a_4 = 13$

B

$n^2 - n + 1$