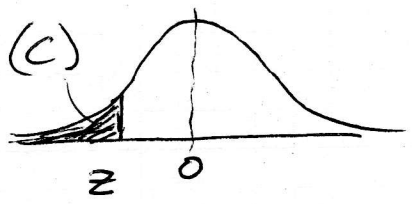
4-12

EX. 17

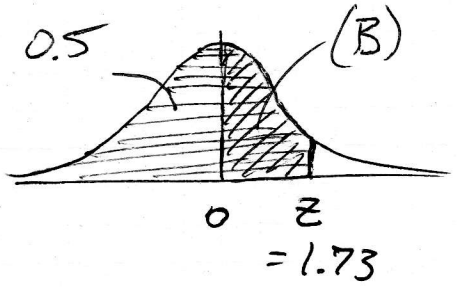
(b) LEFT OF $z = -1.73$



LOOK-UP $z = 1.73$

$(C) = 0.0418$ (4.18%)

(c) LEFT OF $z = +1.73$

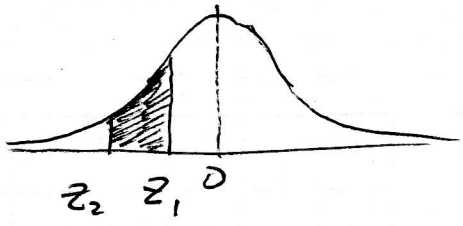


$(B) = 0.4582$

$+$ HALF $= 0.5$

0.9582

(f) BETWEEN $z_1 = -0.90$ AND $z_2 = -1.85$



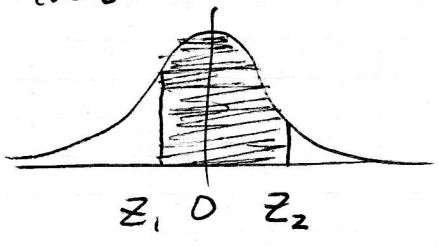
$z_2\ (B) = 0.4678$

$-\ z_1\ (B) = 0.3159$

0.1519

(15.19%)

(k) BETWEEN $z_1 = -0.90$ AND $z_2 = 1.58$



$z_1\ (B) = 0.3159$

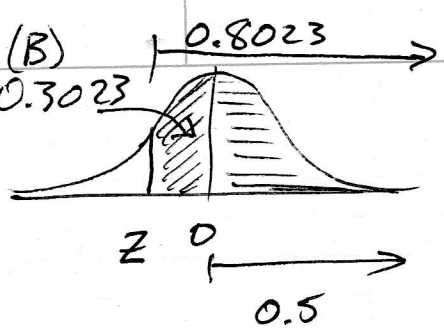
$+\ z_2\ (B) = 0.4429$

0.7588

(75.88%)

2 (c.)

(B) 0.3023



AREA = 0.8023
− 0.5000
0.3023

$Z = -0.85$

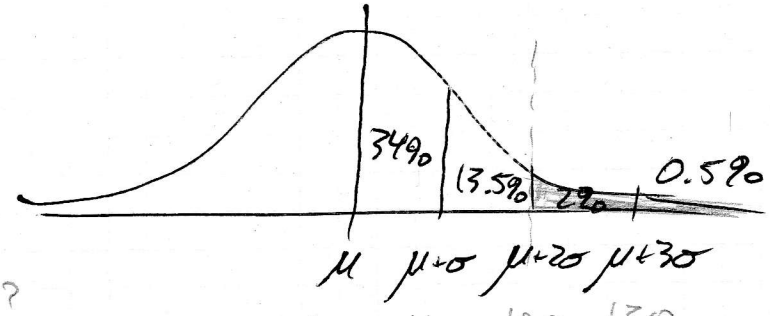
CONVERTING FROM A FRACTION OF A POPULATION TO THE NUMBER OF A POPULATION ("HOW MANY...?")

$\mu = 100$

$\sigma = 10$

$X = 120$

· HOW MANY OF A POPULATION OF 10,000 HAVE AN X-VALUE ABOVE 120?



PERCENTAGE
2.5% of 10,000?

0.025 * 10,000 = 250

FRACTION