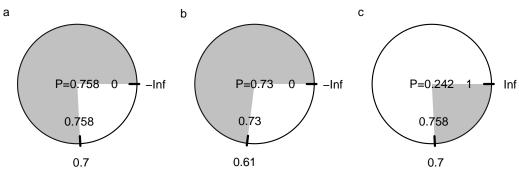
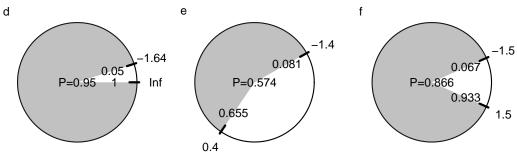
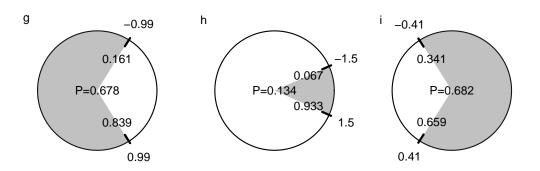


- (a) Evaluate P(Z < 0.7)
- (b) Determine z such that P(Z < z) = 0.73
- (c) Evaluate P(Z > 0.7)
- (d) Determine z such that P(Z > z) = 0.95
- (e) Evaluate P(-1.4 < Z < 0.4)
- (f) Evaluate P(|Z| < 1.5)
- (g) Determine z such that P(|Z| < z) = 0.68
- (h) Evaluate P(|Z| > 1.5)
- (i) Determine z such that P(|Z| > z) = 0.68







(a) 
$$P(Z < 0.7) = 0.758$$

(b) 
$$z = 0.61$$

(c) 
$$P(Z > 0.7) = 0.242$$

(d) 
$$z = -1.64$$

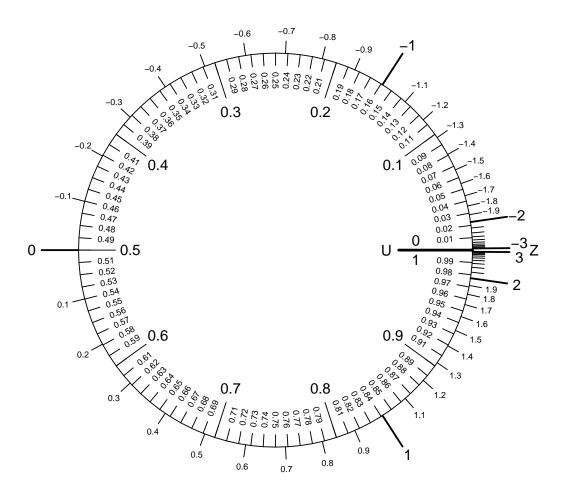
(e) 
$$P(-1.4 < Z < 0.4) = \boxed{0.574}$$

(f) 
$$P(|Z| < 1.5) = \boxed{0.866}$$

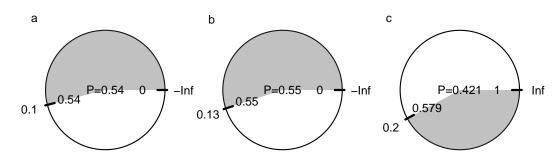
(g) 
$$z = 0.99$$

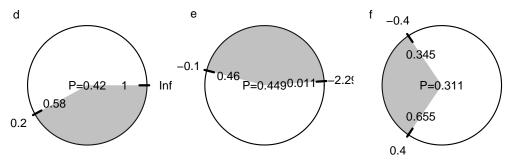
(h) 
$$P(|Z| > 1.5) = \boxed{0.134}$$

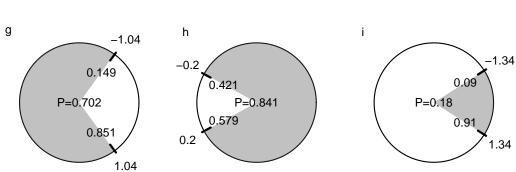
(i) 
$$Z = \boxed{0.41}$$



- (a) Evaluate P(Z < 0.1)
- (b) Determine z such that P(Z < z) = 0.55
- (c) Evaluate P(Z > 0.2)
- (d) Determine z such that P(Z > z) = 0.42
- (e) Evaluate P(-2.3 < Z < -0.1)
- (f) Evaluate P(|Z| < 0.4)
- (g) Determine z such that P(|Z| < z) = 0.7
- (h) Evaluate P(|Z| > 0.2)
- (i) Determine z such that P(|Z| > z) = 0.18







(a) 
$$P(Z < 0.1) = \boxed{0.54}$$

(b) 
$$z = 0.13$$

(c) 
$$P(Z > 0.2) = \boxed{0.421}$$

(d) 
$$z = 0.2$$

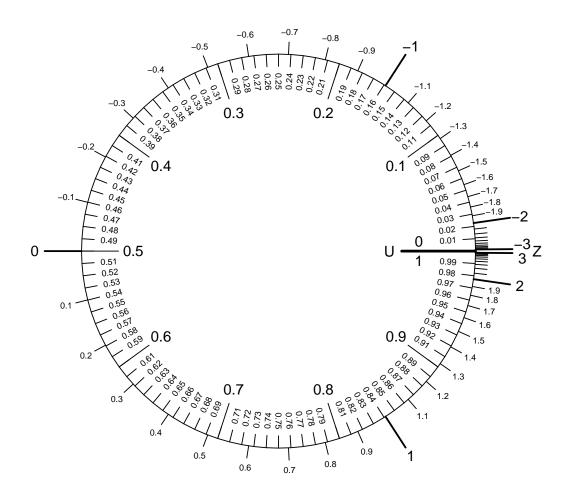
(e) 
$$P(-2.3 < Z < -0.1) = \boxed{0.449}$$

(f) 
$$P(|Z| < 0.4) = \boxed{0.311}$$

(g) 
$$z = 1.04$$

(h) 
$$P(|Z| > 0.2) = \boxed{0.841}$$

(i) 
$$z = \boxed{1.34}$$

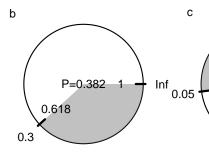


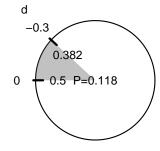
- (a) Evaluate P(|Z| < 1)
- (b) Evaluate P(Z > 0.3)
- (c) Determine z such that P(Z < z) = 0.52
- (d) Evaluate P(-0.3 < Z < 0)
- (e) Evaluate P(|Z| > 1.2)
- (f) Determine z such that P(|Z| > z) = 0.18
- (g) Determine z such that P(Z > z) = 0.16
- (h) Evaluate P(Z < 0.2)
- (i) Determine z such that P(|Z| < z) = 0.24

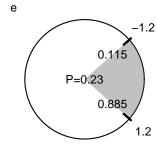
-Inf

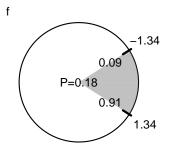
**Solution:** The following circles are meant to help visualize how to get the answers.

a 0.159 P=0.683 0.841

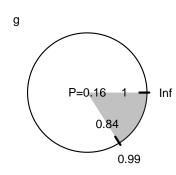


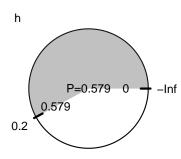


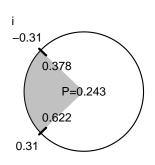




0.52 P=0.52







(a) 
$$P(|Z| < 1) = \boxed{0.683}$$

(b) 
$$P(Z > 0.3) = \boxed{0.382}$$

(c) 
$$z = 0.05$$

(d) 
$$P(-0.3 < Z < 0) = \boxed{0.118}$$

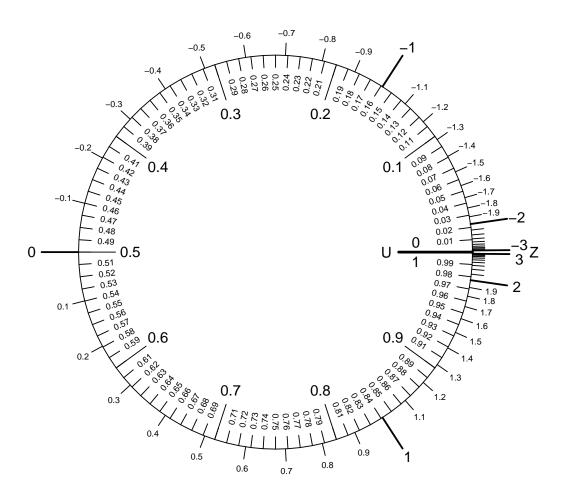
(e) 
$$P(|Z| > 1.2) = \boxed{0.23}$$

(f) 
$$z = 1.34$$

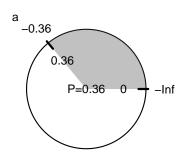
(g) 
$$z = 0.99$$

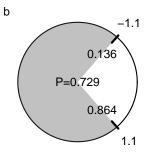
(h) 
$$P(Z < 0.2) = \boxed{0.579}$$

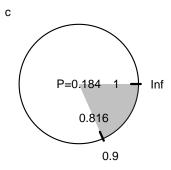
(i) 
$$Z = \boxed{0.31}$$

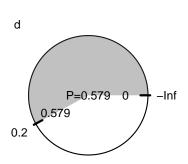


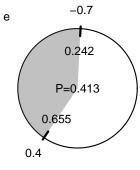
- (a) Determine z such that P(Z < z) = 0.36
- (b) Evaluate P(|Z| < 1.1)
- (c) Evaluate P(Z > 0.9)
- (d) Evaluate P(Z < 0.2)
- (e) Evaluate P(-0.7 < Z < 0.4)
- (f) Evaluate P(|Z| > 0.9)
- (g) Determine z such that P(Z > z) = 0.12
- (h) Determine z such that P(|Z| < z) = 0.28
- (i) Determine z such that P(|Z| > z) = 0.42

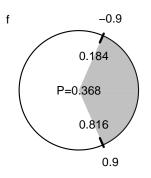


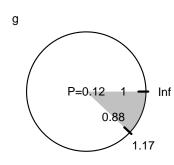


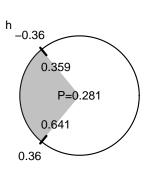


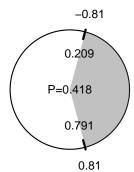












(a) 
$$z = -0.36$$

(b) 
$$P(|Z| < 1.1) = \boxed{0.729}$$

(c) 
$$P(Z > 0.9) = \boxed{0.184}$$

(d) 
$$P(Z < 0.2) = 0.579$$

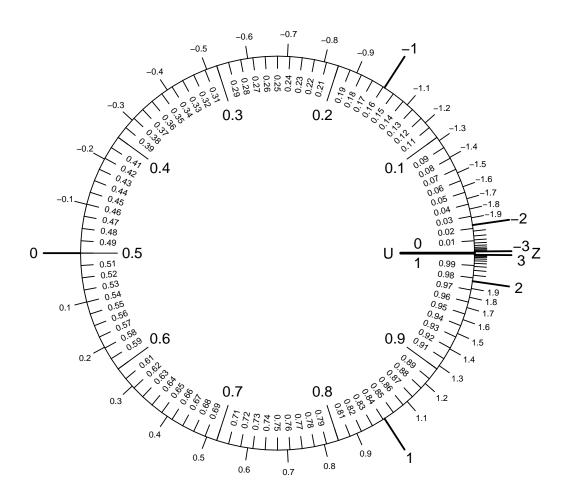
(e) 
$$P(-0.7 < Z < 0.4) = \boxed{0.413}$$

(f) 
$$P(|Z| > 0.9) = \boxed{0.368}$$

(g) 
$$z = 1.17$$

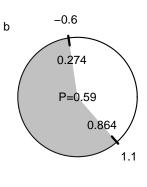
(h) 
$$z = 0.36$$

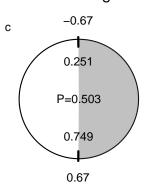
(i) 
$$z = 0.81$$

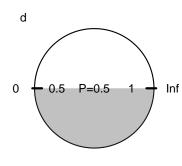


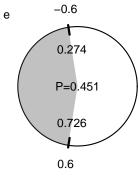
- (a) Determine z such that P(|Z| < z) = 0.42
- (b) Evaluate P(-0.6 < Z < 1.1)
- (c) Determine z such that P(|Z| > z) = 0.5
- (d) Evaluate P(Z > 0)
- (e) Evaluate P(|Z| < 0.6)
- (f) Determine z such that P(Z < z) = 0.79
- (g) Evaluate P(Z < 0.4)
- (h) Evaluate P(|Z| > 1.1)
- (i) Determine z such that P(Z > z) = 0.62

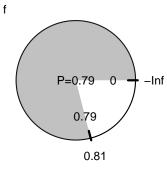
a -0.55 0.291 P=0.418 0.709 0.55

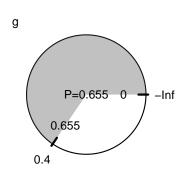


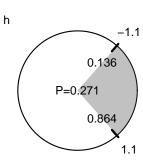


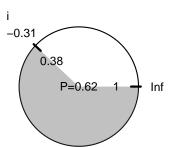












(a) 
$$z = 0.55$$

(b) 
$$P(-0.6 < Z < 1.1) = 0.59$$

(c) 
$$z = 0.67$$

(d) 
$$P(Z > 0) = 0.5$$

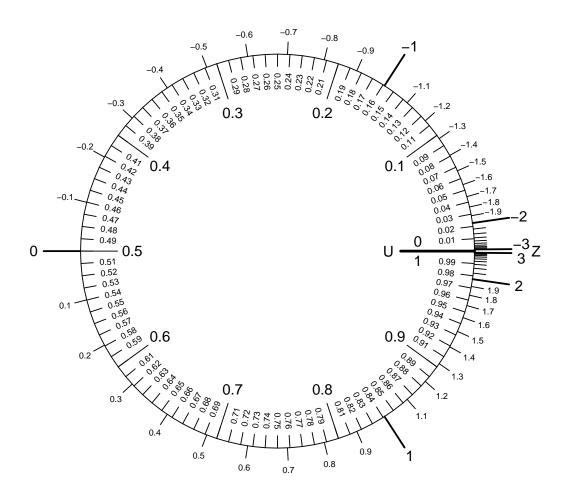
(e) 
$$P(|Z| < 0.6) = \boxed{0.451}$$

(f) 
$$z = 0.81$$

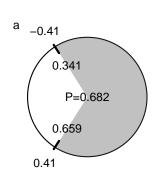
(g) 
$$P(Z < 0.4) = 0.655$$

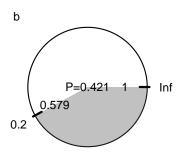
(h) 
$$P(|Z| > 1.1) = \boxed{0.271}$$

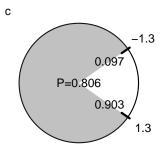
(i) 
$$z = -0.31$$

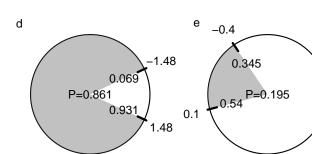


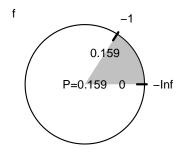
- (a) Determine z such that P(|Z| > z) = 0.68
- (b) Evaluate P(Z > 0.2)
- (c) Evaluate P(|Z| < 1.3)
- (d) Determine z such that P(|Z| < z) = 0.86
- (e) Evaluate P(-0.4 < Z < 0.1)
- (f) Evaluate P(Z < -1)
- (g) Determine z such that P(Z > z) = 0.86
- (h) Determine z such that P(Z < z) = 0.4
- (i) Evaluate P(|Z| > 0.9)

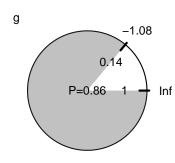


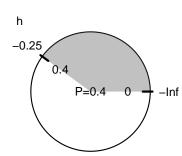


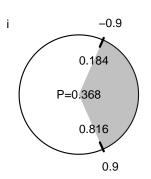












(a) 
$$z = 0.41$$

(b) 
$$P(Z > 0.2) = 0.421$$

(c) 
$$P(|Z| < 1.3) = \boxed{0.806}$$

(d) 
$$z = 1.48$$

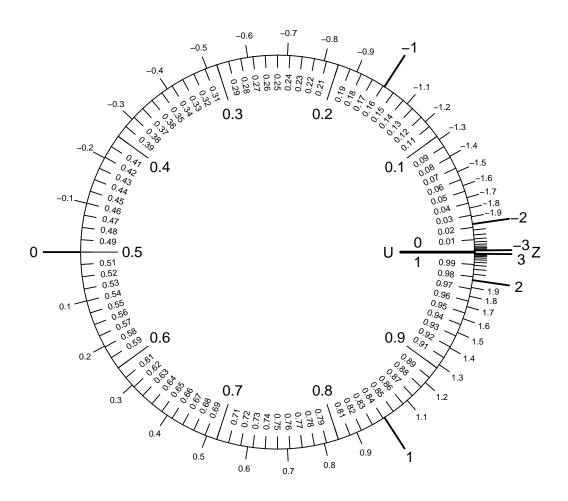
(e) 
$$P(-0.4 < Z < 0.1) = \boxed{0.195}$$

(f) 
$$P(Z < -1) = \boxed{0.159}$$

(g) 
$$z = -1.08$$

(h) 
$$z = \boxed{-0.25}$$

(i) 
$$P(|Z| > 0.9) = \boxed{0.368}$$



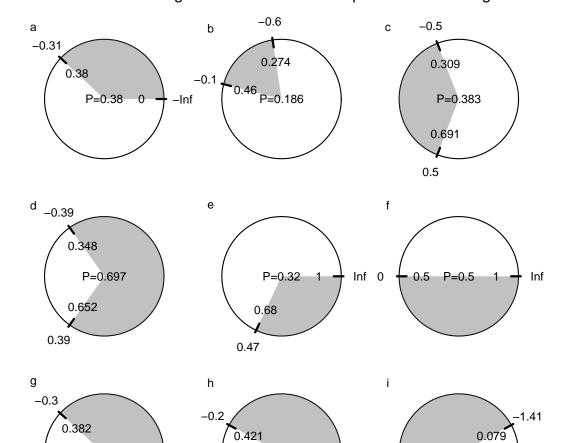
- (a) Determine z such that P(Z < z) = 0.38
- (b) Evaluate P(-0.6 < Z < -0.1)
- (c) Evaluate P(|Z| < 0.5)
- (d) Determine z such that P(|Z| > z) = 0.7
- (e) Determine z such that P(Z > z) = 0.32
- (f) Evaluate P(Z > 0)
- (g) Evaluate P(Z < -0.3)
- (h) Evaluate P(|Z| > 0.2)
- (i) Determine z such that P(|Z| < z) = 0.84

P=0.841

0.921

1.41

**Solution:** The following circles are meant to help visualize how to get the answers.



P=0.841

0.579

(a) 
$$z = -0.31$$

(b) 
$$P(-0.6 < Z < -0.1) = \boxed{0.186}$$

(c) 
$$P(|Z| < 0.5) = \boxed{0.383}$$

P=0.382 0

-Inf

0.2

(d) 
$$z = 0.39$$

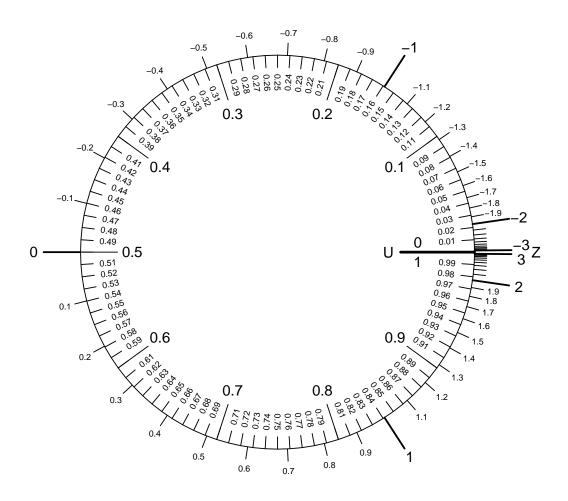
(e) 
$$z = \boxed{0.47}$$

(f) 
$$P(Z > 0) = 0.5$$

(g) 
$$P(Z < -0.3) = \boxed{0.382}$$

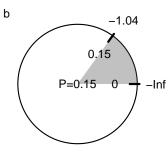
(h) 
$$P(|Z| > 0.2) = \boxed{0.841}$$

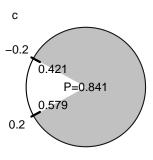
(i) 
$$Z = \boxed{1.41}$$

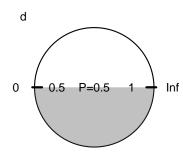


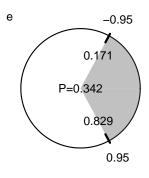
- (a) Determine z such that P(|Z| < z) = 0.64
- (b) Determine z such that P(Z < z) = 0.15
- (c) Evaluate P(|Z| > 0.2)
- (d) Determine z such that P(Z > z) = 0.5
- (e) Determine z such that P(|Z| > z) = 0.34
- (f) Evaluate P(Z > 0.6)
- (g) Evaluate P(|Z| < 0.8)
- (h) Evaluate P(Z < 0.6)
- (i) Evaluate P(-0.3 < Z < 0.2)

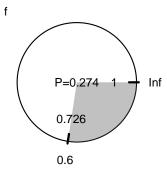
a -0.92 0.179 P=0.642 0.821 0.92

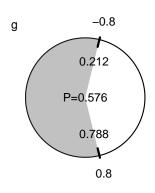


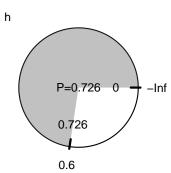


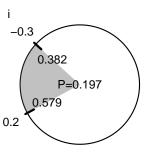












(a) 
$$z = 0.92$$

(b) 
$$z = -1.04$$

(c) 
$$P(|Z| > 0.2) = 0.841$$

(d) 
$$z = 0$$

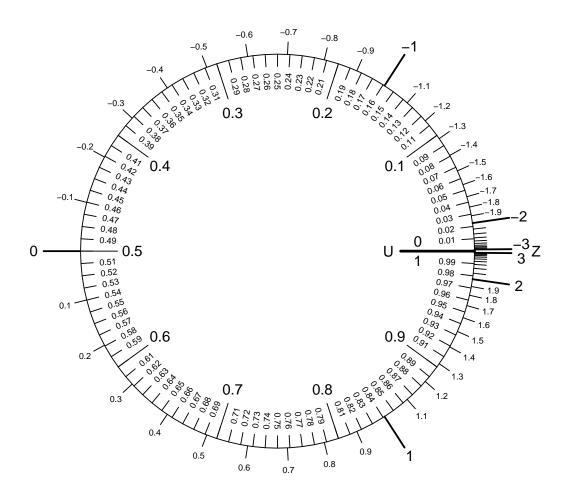
(e) 
$$z = 0.95$$

(f) 
$$P(Z > 0.6) = \boxed{0.274}$$

(g) 
$$P(|Z| < 0.8) = \boxed{0.576}$$

(h) 
$$P(Z < 0.6) = 0.726$$

(i) 
$$P(-0.3 < Z < 0.2) = \boxed{0.197}$$

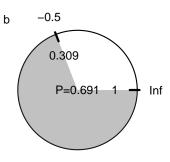


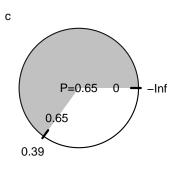
- (a) Determine z such that P(Z > z) = 0.37
- (b) Evaluate P(Z > -0.5)
- (c) Determine z such that P(Z < z) = 0.65
- (d) Evaluate P(|Z| > 1.4)
- (e) Evaluate P(|Z| < 0.8)
- (f) Determine z such that P(|Z| < z) = 0.62
- (g) Evaluate P(1 < Z < 1.3)
- (h) Determine z such that P(|Z| > z) = 0.12
- (i) Evaluate P(Z < -1)

0.33

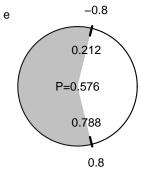
**Solution:** The following circles are meant to help visualize how to get the answers.

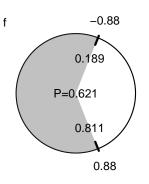
P=0.37 1 Inf

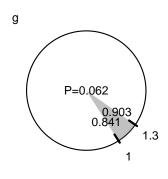


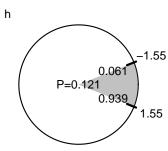


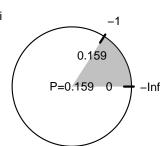
0.081 P=0.162 0.919











(a) 
$$z = 0.33$$

(b) 
$$P(Z > -0.5) = \boxed{0.691}$$

(c) 
$$z = 0.39$$

(d) 
$$P(|Z| > 1.4) = \boxed{0.162}$$

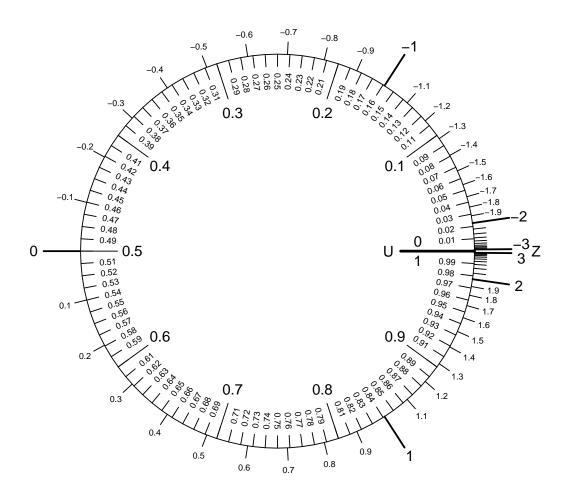
(e) 
$$P(|Z| < 0.8) = \boxed{0.576}$$

(f) 
$$z = 0.88$$

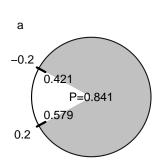
(g) 
$$P(1 < Z < 1.3) = 0.062$$

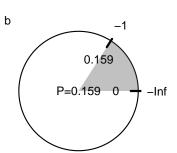
(h) 
$$z = 1.55$$

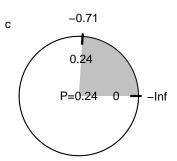
(i) 
$$P(Z < -1) = \boxed{0.159}$$

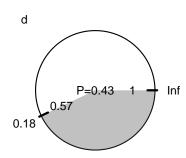


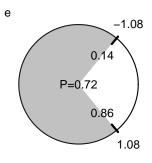
- (a) Evaluate P(|Z| > 0.2)
- (b) Evaluate P(Z < -1)
- (c) Determine z such that P(Z < z) = 0.24
- (d) Determine z such that P(Z > z) = 0.43
- (e) Determine z such that P(|Z| < z) = 0.72
- (f) Evaluate P(|Z| < 0.4)
- (g) Evaluate P(Z > 0.2)
- (h) Determine z such that P(|Z| > z) = 0.28
- (i) Evaluate P(-1.6 < Z < -0.8)

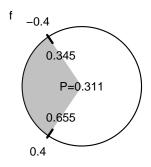


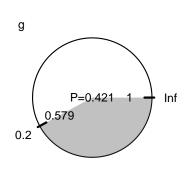


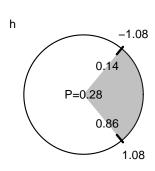


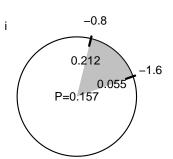












(a) 
$$P(|Z| > 0.2) = \boxed{0.841}$$

(b) 
$$P(Z < -1) = 0.159$$

(c) 
$$z = \boxed{-0.71}$$

(d) 
$$z = 0.18$$

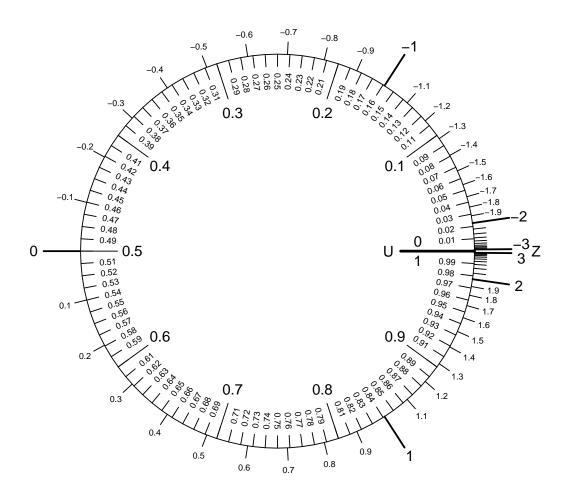
(e) 
$$z = 1.08$$

(f) 
$$P(|Z| < 0.4) = \boxed{0.311}$$

(g) 
$$P(Z > 0.2) = \boxed{0.421}$$

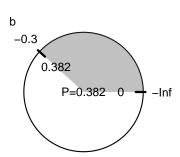
(h) 
$$z = 1.08$$

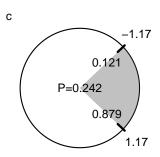
(i) 
$$P(-1.6 < Z < -0.8) = \boxed{0.157}$$



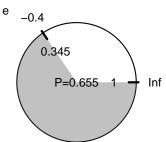
- (a) Evaluate P(|Z| < 0.3)
- (b) Evaluate P(Z < -0.3)
- (c) Determine z such that P(|Z| > z) = 0.24
- (d) Determine z such that P(|Z| < z) = 0.74
- (e) Evaluate P(Z > -0.4)
- (f) Determine z such that P(Z < z) = 0.42
- (g) Evaluate P(-0.6 < Z < -0.4)
- (h) Evaluate P(|Z| > 1.4)
- (i) Determine z such that P(Z > z) = 0.65

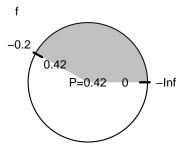
0.382 P=0.236 0.618

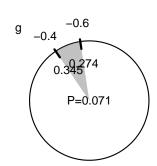


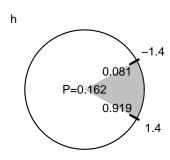


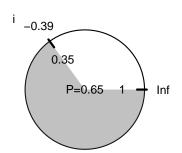
0.129 P=0.742 0.871











(a) 
$$P(|Z| < 0.3) = \boxed{0.236}$$

(b) 
$$P(Z < -0.3) = \boxed{0.382}$$

(c) 
$$z = 1.17$$

(d) 
$$z = 1.13$$

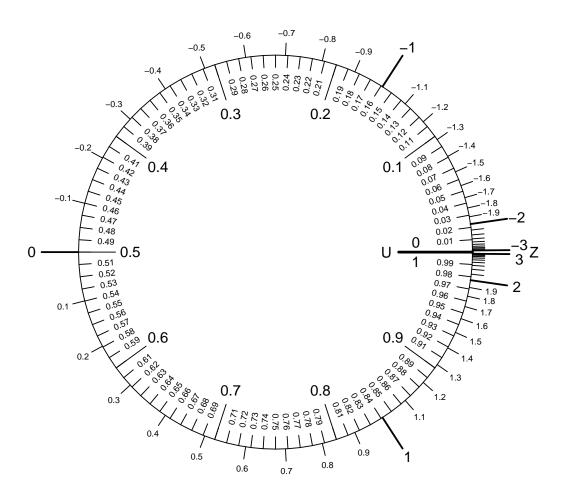
(e) 
$$P(Z > -0.4) = \boxed{0.655}$$

(f) 
$$z = -0.2$$

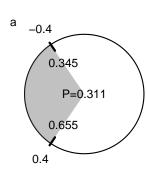
(g) 
$$P(-0.6 < Z < -0.4) = \boxed{0.071}$$

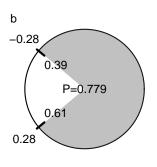
(h) 
$$P(|Z| > 1.4) = \boxed{0.162}$$

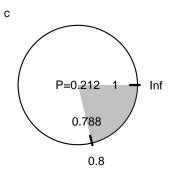
(i) 
$$z = \boxed{-0.39}$$

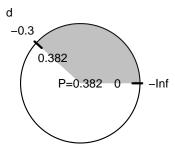


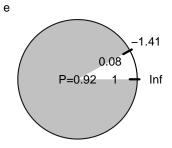
- (a) Evaluate P(|Z| < 0.4)
- (b) Determine z such that P(|Z| > z) = 0.78
- (c) Evaluate P(Z > 0.8)
- (d) Evaluate P(Z < -0.3)
- (e) Determine z such that P(Z > z) = 0.92
- (f) Determine z such that P(Z < z) = 0.8
- (g) Evaluate P(|Z| > 0.3)
- (h) Evaluate P(0.2 < Z < 1)
- (i) Determine z such that P(|Z| < z) = 0.72

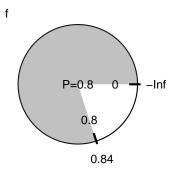


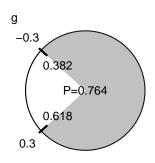


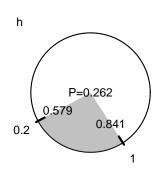


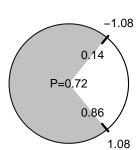












(a) 
$$P(|Z| < 0.4) = \boxed{0.311}$$

(b) 
$$z = 0.28$$

(c) 
$$P(Z > 0.8) = \boxed{0.212}$$

(d) 
$$P(Z < -0.3) = \boxed{0.382}$$

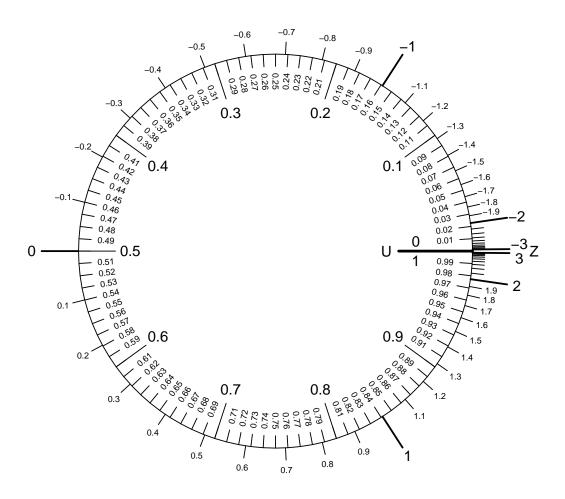
(e) 
$$z = -1.41$$

(f) 
$$z = 0.84$$

(g) 
$$P(|Z| > 0.3) = \boxed{0.764}$$

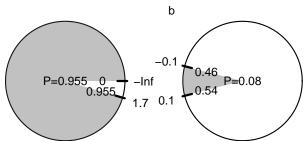
(h) 
$$P(0.2 < Z < 1) = 0.262$$

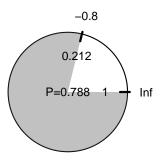
(i) 
$$Z = 1.08$$



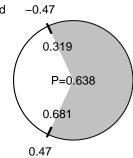
- (a) Evaluate P(Z < 1.7)
- (b) Evaluate P(|Z| < 0.1)
- (c) Evaluate P(Z > -0.8)
- (d) Determine z such that P(|Z| > z) = 0.64
- (e) Determine z such that P(Z < z) = 0.11
- (f) Determine z such that P(|Z| < z) = 0.34
- (g) Evaluate P(-0.6 < Z < 1.7)
- (h) Determine z such that P(Z > z) = 0.76
- (i) Evaluate P(|Z| > 1.4)

а

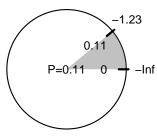




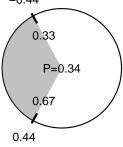
d



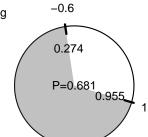
е



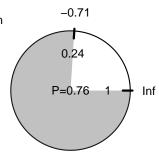
f -0.44

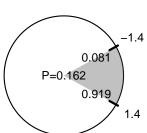


g



h





(a) 
$$P(Z < 1.7) = \boxed{0.955}$$

(b) 
$$P(|Z| < 0.1) = \boxed{0.08}$$

(c) 
$$P(Z > -0.8) = \boxed{0.788}$$

(d) 
$$z = 0.47$$

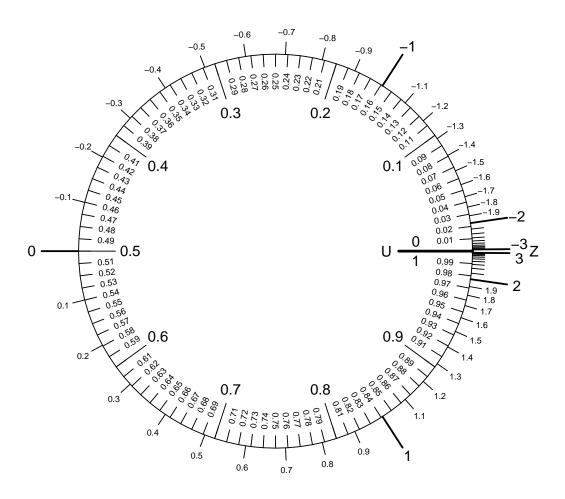
(e) 
$$z = \begin{bmatrix} -1.23 \end{bmatrix}$$

(f) 
$$z = 0.44$$

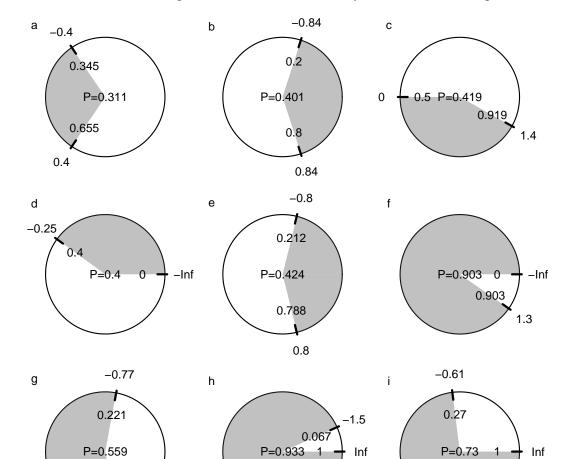
(g) 
$$P(-0.6 < Z < 1.7) = \boxed{0.681}$$

(h) 
$$z = \boxed{-0.71}$$

(i) 
$$P(|Z| > 1.4) = 0.162$$



- (a) Evaluate P(|Z| < 0.4)
- (b) Determine z such that P(|Z| > z) = 0.4
- (c) Evaluate P(0 < Z < 1.4)
- (d) Determine z such that P(Z < z) = 0.4
- (e) Evaluate P(|Z| > 0.8)
- (f) Evaluate P(Z < 1.3)
- (g) Determine z such that P(|Z| < z) = 0.56
- (h) Evaluate P(Z > -1.5)
- (i) Determine z such that P(Z > z) = 0.73



(a) 
$$P(|Z| < 0.4) = \boxed{0.311}$$

0.779

0.77

(b) 
$$z = 0.84$$

(c) 
$$P(0 < Z < 1.4) = 0.419$$

(d) 
$$z = -0.25$$

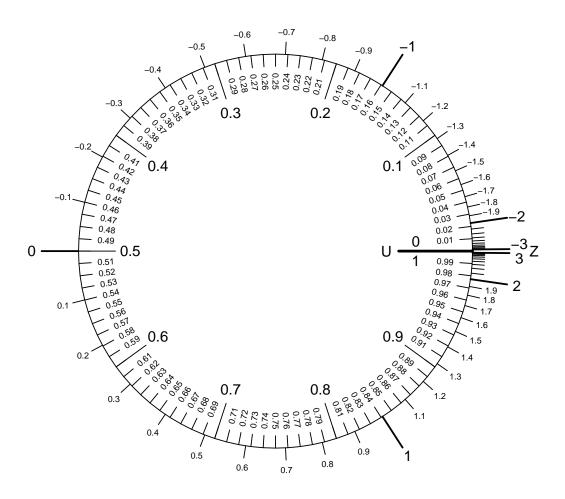
(e) 
$$P(|Z| > 0.8) = \boxed{0.424}$$

(f) 
$$P(Z < 1.3) = \boxed{0.903}$$

(g) 
$$z = 0.77$$

(h) 
$$P(Z > -1.5) = \boxed{0.933}$$

(i) 
$$z = \boxed{-0.61}$$



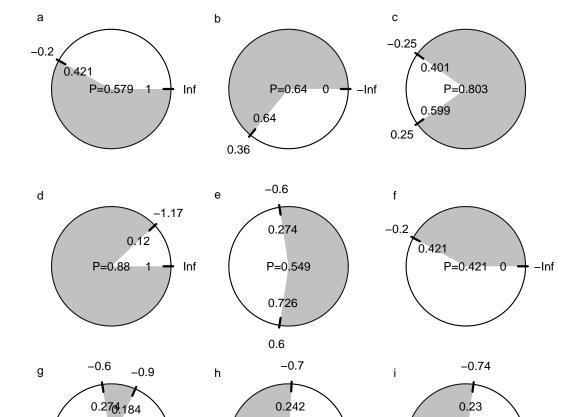
- (a) Evaluate P(Z > -0.2)
- (b) Determine z such that P(Z < z) = 0.64
- (c) Determine z such that P(|Z| > z) = 0.8
- (d) Determine z such that P(Z > z) = 0.88
- (e) Evaluate P(|Z| > 0.6)
- (f) Evaluate P(Z < -0.2)
- (g) Evaluate P(-0.9 < Z < -0.6)
- (h) Evaluate P(|Z| < 0.7)
- (i) Determine z such that P(|Z| < z) = 0.54

P=0.541

0.77

0.74

**Solution:** The following circles are meant to help visualize how to get the answers.



P=0.516

0.758

0.7

(a) 
$$P(Z > -0.2) = \boxed{0.579}$$

P=0.09

(b) 
$$z = 0.36$$

(c) 
$$z = 0.25$$

(d) 
$$z = \begin{bmatrix} -1.17 \end{bmatrix}$$

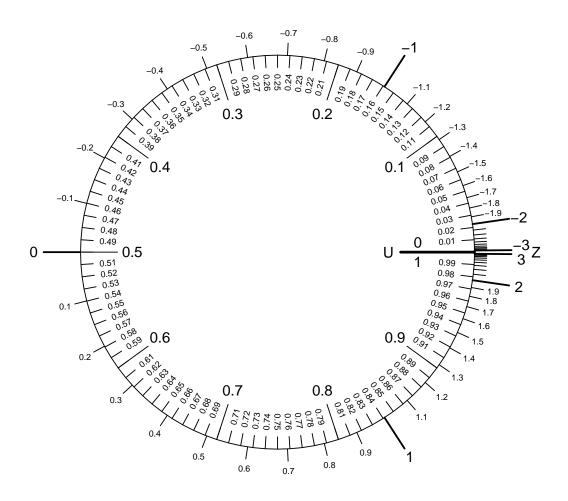
(e) 
$$P(|Z| > 0.6) = \boxed{0.549}$$

(f) 
$$P(Z < -0.2) = \boxed{0.421}$$

(g) 
$$P(-0.9 < Z < -0.6) = \boxed{0.09}$$

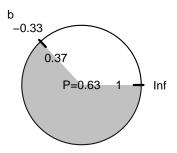
(h) 
$$P(|Z| < 0.7) = \boxed{0.516}$$

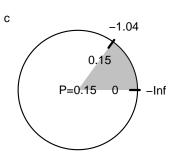
(i) 
$$z = 0.74$$

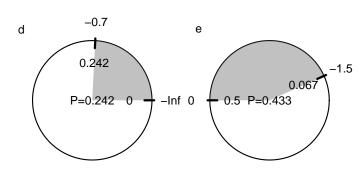


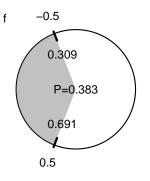
- (a) Determine z such that P(|Z| > z) = 0.64
- (b) Determine z such that P(Z > z) = 0.63
- (c) Determine z such that P(Z < z) = 0.15
- (d) Evaluate P(Z < -0.7)
- (e) Evaluate P(-1.5 < Z < 0)
- (f) Evaluate P(|Z| < 0.5)
- (g) Determine z such that P(|Z| < z) = 0.6
- (h) Evaluate P(|Z| > 1.7)
- (i) Evaluate P(Z > 1)

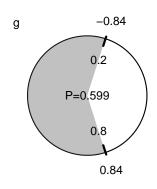
a -0.47 0.319 P=0.638 0.681 0.47

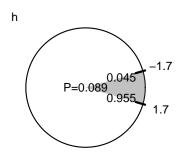


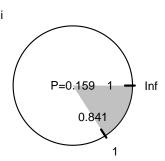












(a) 
$$z = 0.47$$

(b) 
$$z = \boxed{-0.33}$$

(c) 
$$z = -1.04$$

(d) 
$$P(Z < -0.7) = \boxed{0.242}$$

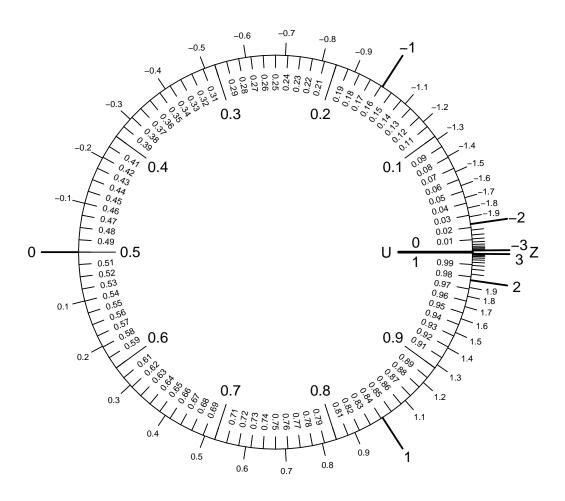
(e) 
$$P(-1.5 < Z < 0) = \boxed{0.433}$$

(f) 
$$P(|Z| < 0.5) = \boxed{0.383}$$

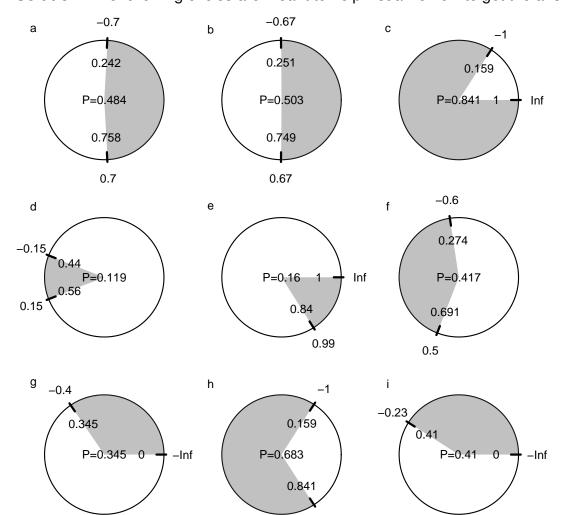
(g) 
$$z = 0.84$$

(h) 
$$P(|Z| > 1.7) = \boxed{0.089}$$

(i) 
$$P(Z > 1) = \boxed{0.159}$$



- (a) Evaluate P(|Z| > 0.7)
- (b) Determine z such that P(|Z| > z) = 0.5
- (c) Evaluate P(Z > -1)
- (d) Determine z such that P(|Z| < z) = 0.12
- (e) Determine z such that P(Z > z) = 0.16
- (f) Evaluate P(-0.6 < Z < 0.5)
- (g) Evaluate P(Z < -0.4)
- (h) Evaluate P(|Z| < 1)
- (i) Determine z such that P(Z < z) = 0.41



(a) 
$$P(|Z| > 0.7) = \boxed{0.484}$$

(b) 
$$z = 0.67$$

(c) 
$$P(Z > -1) = 0.841$$

(d) 
$$z = 0.15$$

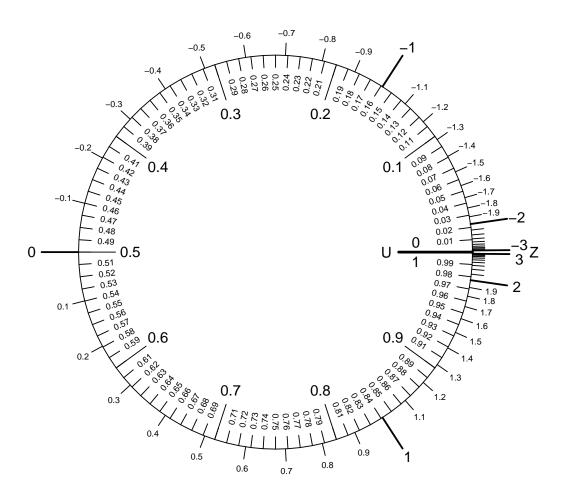
(e) 
$$z = 0.99$$

(f) 
$$P(-0.6 < Z < 0.5) = \boxed{0.417}$$

(g) 
$$P(Z < -0.4) = \boxed{0.345}$$

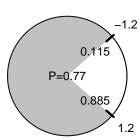
(h) 
$$P(|Z| < 1) = \boxed{0.683}$$

(i) 
$$z = \boxed{-0.23}$$

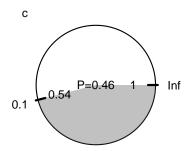


- (a) Evaluate P(|Z| < 1.2)
- (b) Determine z such that P(|Z| > z) = 0.76
- (c) Evaluate P(Z > 0.1)
- (d) Determine z such that P(Z > z) = 0.72
- (e) Determine z such that P(Z < z) = 0.11
- (f) Determine z such that P(|Z| < z) = 0.86
- (g) Evaluate P(Z < 1.2)
- (h) Evaluate P(-0.4 < Z < 0.1)
- (i) Evaluate P(|Z| > 1.7)

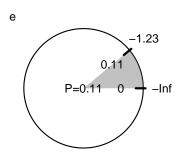
а

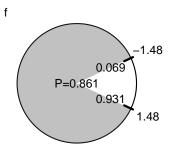


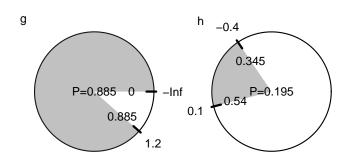
b -0.31 0.378 P=0.757 0.622 0.31

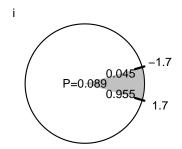


d -0.58 0.28 P=0.72 1 Inf









(a) 
$$P(|Z| < 1.2) = \boxed{0.77}$$

(b) 
$$z = 0.31$$

(c) 
$$P(Z > 0.1) = 0.46$$

(d) 
$$z = -0.58$$

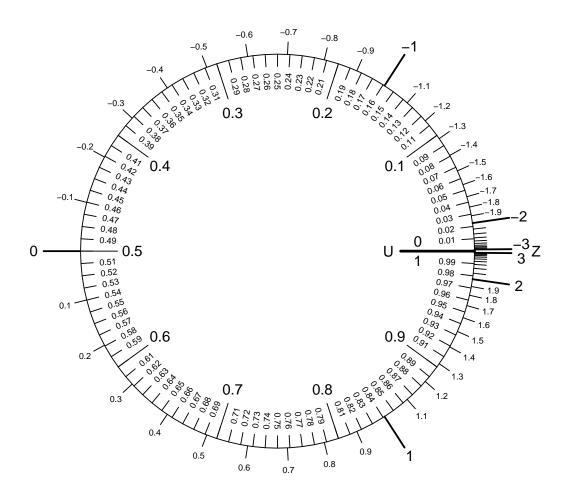
(e) 
$$z = \boxed{-1.23}$$

(f) 
$$z = 1.48$$

(g) 
$$P(Z < 1.2) = 0.885$$

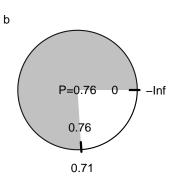
(h) 
$$P(-0.4 < Z < 0.1) = \boxed{0.195}$$

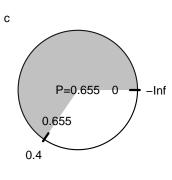
(i) 
$$P(|Z| > 1.7) = \boxed{0.089}$$

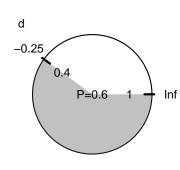


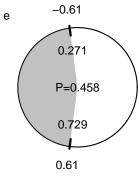
- (a) Evaluate P(|Z| < 1)
- (b) Determine z such that P(Z < z) = 0.76
- (c) Evaluate P(Z < 0.4)
- (d) Determine z such that P(Z > z) = 0.6
- (e) Determine z such that P(|Z| < z) = 0.46
- (f) Determine z such that P(|Z| > z) = 0.62
- (g) Evaluate P(-0.4 < Z < 0.4)
- (h) Evaluate P(|Z| > 0.4)
- (i) Evaluate P(Z > 0.4)

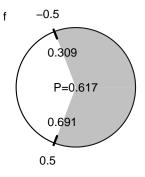
0.159 P=0.683 0.841

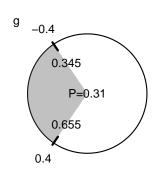


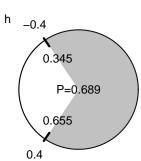


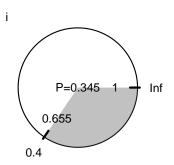












(a) 
$$P(|Z| < 1) = \boxed{0.683}$$

(b) 
$$z = \boxed{0.71}$$

(c) 
$$P(Z < 0.4) = 0.655$$

(d) 
$$z = -0.25$$

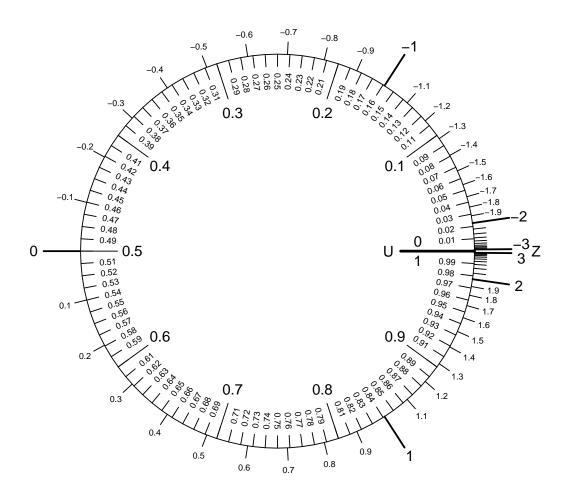
(e) 
$$z = 0.61$$

(f) 
$$z = 0.5$$

(g) 
$$P(-0.4 < Z < 0.4) = \boxed{0.31}$$

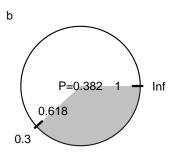
(h) 
$$P(|Z| > 0.4) = \boxed{0.689}$$

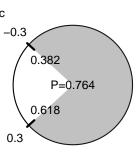
(i) 
$$P(Z > 0.4) = \boxed{0.345}$$

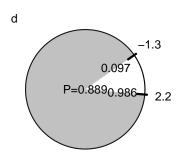


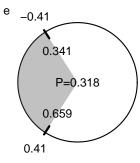
- (a) Evaluate P(|Z| < 0.5)
- (b) Evaluate P(Z > 0.3)
- (c) Evaluate P(|Z| > 0.3)
- (d) Evaluate P(-1.3 < Z < 2.2)
- (e) Determine z such that P(|Z| < z) = 0.32
- (f) Determine z such that P(|Z| > z) = 0.48
- (g) Determine z such that P(Z > z) = 0.19
- (h) Evaluate P(Z < -1.8)
- (i) Determine z such that P(Z < z) = 0.56

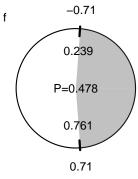
a -0.5 0.309 P=0.383 0.691 0.5

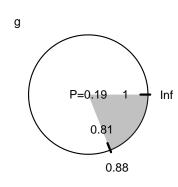


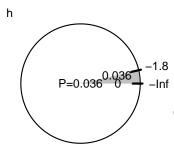


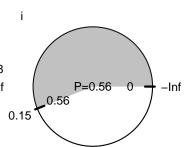












(a) 
$$P(|Z| < 0.5) = \boxed{0.383}$$

(b) 
$$P(Z > 0.3) = 0.382$$

(c) 
$$P(|Z| > 0.3) = \boxed{0.764}$$

(d) 
$$P(-1.3 < Z < 2.2) = 0.889$$

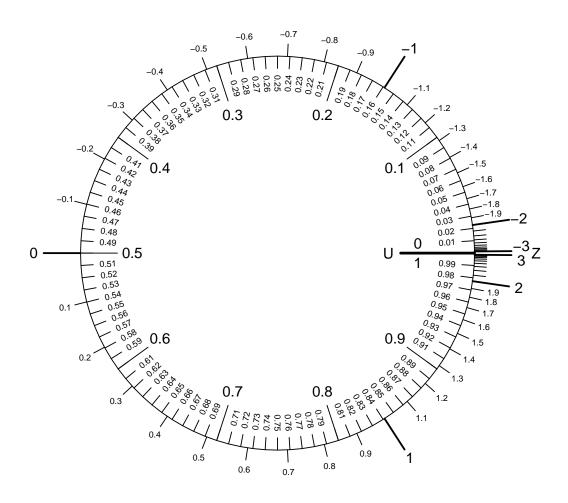
(e) 
$$z = 0.41$$

(f) 
$$z = 0.71$$

(g) 
$$z = 0.88$$

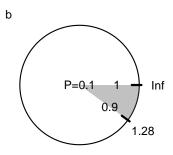
(h) 
$$P(Z < -1.8) = \boxed{0.036}$$

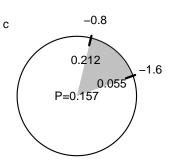
(i) 
$$z = \boxed{0.15}$$

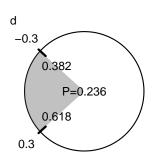


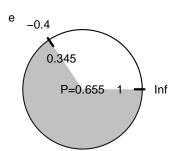
- (a) Determine z such that P(|Z| > z) = 0.7
- (b) Determine z such that P(Z > z) = 0.1
- (c) Evaluate P(-1.6 < Z < -0.8)
- (d) Evaluate P(|Z| < 0.3)
- (e) Evaluate P(Z > -0.4)
- (f) Evaluate P(Z < -0.7)
- (g) Determine z such that P(Z < z) = 0.74
- (h) Evaluate P(|Z| > 0.7)
- (i) Determine z such that P(|Z| < z) = 0.32

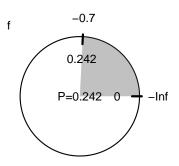
a -0.39 0.348 P=0.697 0.652 0.39

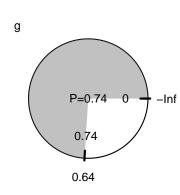


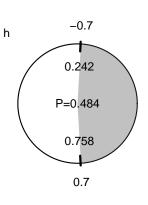


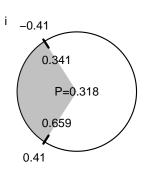












(a) 
$$z = 0.39$$

(b) 
$$z = 1.28$$

(c) 
$$P(-1.6 < Z < -0.8) = \boxed{0.157}$$

(d) 
$$P(|Z| < 0.3) = \boxed{0.236}$$

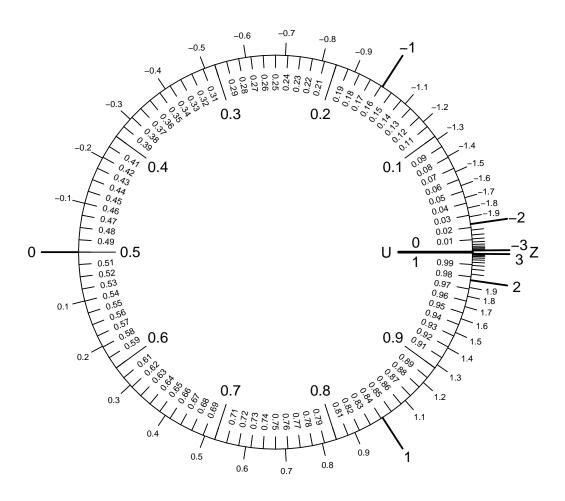
(e) 
$$P(Z > -0.4) = \boxed{0.655}$$

(f) 
$$P(Z < -0.7) = 0.242$$

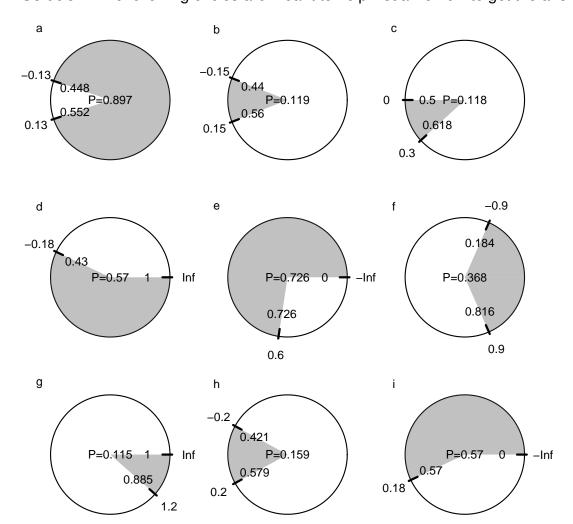
(g) 
$$z = 0.64$$

(h) 
$$P(|Z| > 0.7) = \boxed{0.484}$$

(i) 
$$Z = \boxed{0.41}$$



- (a) Determine z such that P(|Z| > z) = 0.9
- (b) Determine z such that P(|Z| < z) = 0.12
- (c) Evaluate P(0 < Z < 0.3)
- (d) Determine z such that P(Z > z) = 0.57
- (e) Evaluate P(Z < 0.6)
- (f) Evaluate P(|Z| > 0.9)
- (g) Evaluate P(Z > 1.2)
- (h) Evaluate P(|Z| < 0.2)
- (i) Determine z such that P(Z < z) = 0.57



(a) 
$$z = 0.13$$

(b) 
$$z = \boxed{0.15}$$

(c) 
$$P(0 < Z < 0.3) = \boxed{0.118}$$

(d) 
$$z = \boxed{-0.18}$$

(e) 
$$P(Z < 0.6) = 0.726$$

(f) 
$$P(|Z| > 0.9) = \boxed{0.368}$$

(g) 
$$P(Z > 1.2) = \boxed{0.115}$$

(h) 
$$P(|Z| < 0.2) = \boxed{0.159}$$

(i) 
$$z = \boxed{0.18}$$