

# 正規分布利用の練習

# 練習 平均20分, 標準偏差4分

ある作業時間の分布:

正規分布(平均20分, 標準偏差4分)

作業時間が

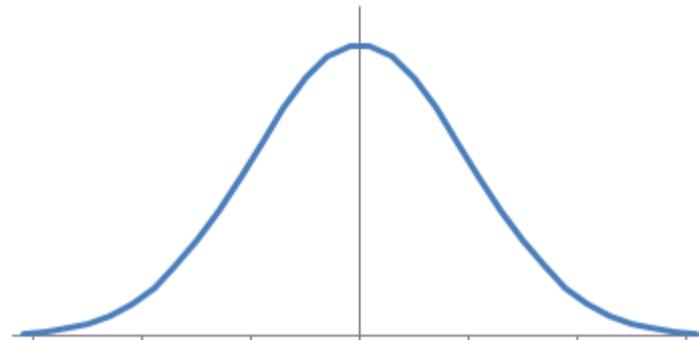
- 基礎
- (1)20分以上かかる確率は?
  - (2)24分以上かかる確率は?
  - (3)16分以下でおえる確率は?

- ちょっと応用
- (4)18分以上かかる確率は?
  - (5)23分以下でおえる確率は?

- (6)18分以上23分以下でおえる確率は?

# (1) 20分以上

正規分布 ( $\mu=20$ (分),  $\sigma=4$ (分))



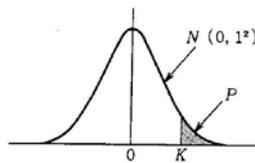
- ① 主な目盛りを書く ( $\mu$ ,  $\sigma$ )
- ② 求めたい範囲を描く (20分以上)  
⇒ 導出したい面積を目で把握
- ③ 面積の導出 ※全体=1

(1) 20分以上かかる確率は？

⇒

P=

## (2) 24分以上



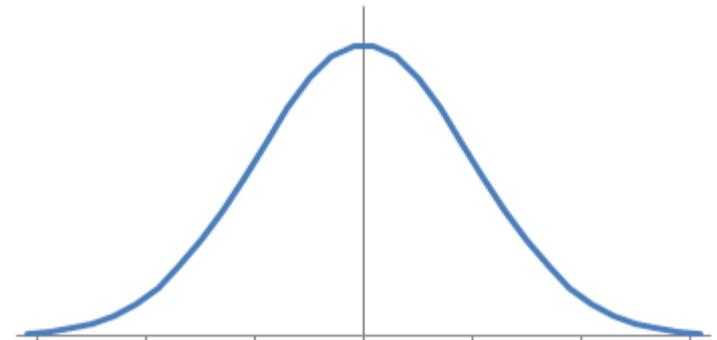
正規分布 ( $\mu=20(\text{分}), \sigma=4(\text{分})$ )

1 PからKを求める表

P	.10	.05	.025	.010	.005
K	1.282	1.645	1.960	2.326	2.576

2 KからPを求める表

K	*=0	1	2	3	4	5	6	7	8	9
.0*	.500 0	.496 0	.492 0	.488 0	.484 0	.480 1	.476 1	.472 1	.468 1	.464 1
.1*	.460 2	.456 2	.452 2	.448 3	.444 3	.440 4	.436 4	.432 5	.428 6	.424 7
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- ② 求めたい範囲を描く (24分以上)  
⇒ 導出したい面積を目で把握
- ③ 面積の導出: 正規分布表の利用  
3-1)  $\mu$ からの差は $\sigma$ のK倍: Kを求める

$$K = \boxed{\phantom{000}}$$

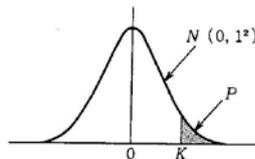
3-2) 正規分布表で該当箇所を探す

(2) 24分以上かかる確率は?

$$\Rightarrow P = \boxed{\phantom{000}}$$

例 K=1.46に対するPは、1.4\*の行と \*=6 の列の交わるところの値 .0721 である。

# (3) 16分以下



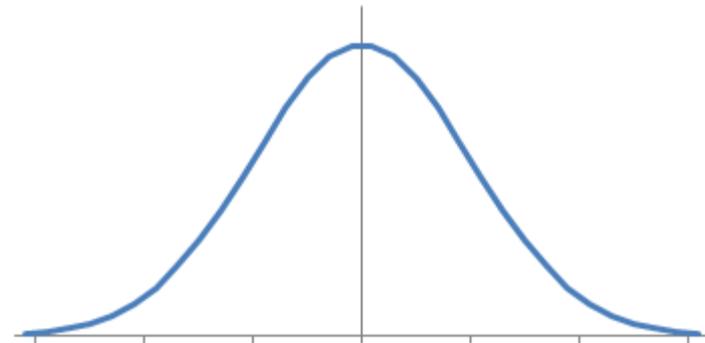
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 ⇒ 導出したい面積を目で把握  
 ⇒ 同じ面積の場所を探す
- ③ 面積の導出: 正規分布表の利用  
 3-1)  $\mu$ からの差は $\sigma$ のK倍: Kを求める

K =

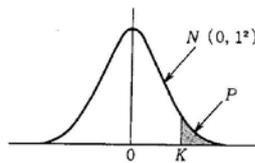
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⇒ P =

例 K=1.46に対するPは、1.4\*の行と \*=6 の列の交わる場所の値 .0721 である。

# (4) 18分以上



正規分布 ( $\mu=20(\text{分}), \sigma=4(\text{分})$ )

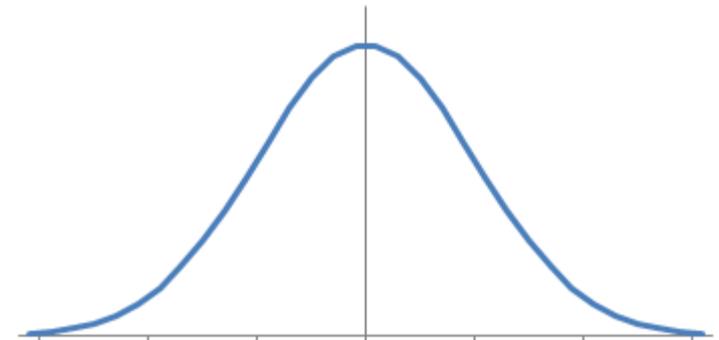
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例 K=1.46に対するPは、1.4\*の行と \*=6 の列の交わる場所の値 .0721 である。



- ① 主な目盛りを書く ( $\mu, \sigma$ )
- ② 求めたい範囲を描く (18分以上)  
⇒ 導出したい面積を目で把握  
⇒ 他部分の面積を利用
- ③ 面積の導出: 正規分布表の利用

3-1)

$$K = \boxed{\phantom{000000}}$$

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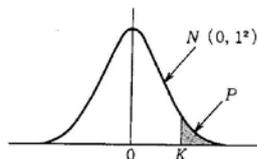
3-3) 求めたい面積を算出

(4) 18分以上かかる確率は?

⇒

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# (5) 23分以下



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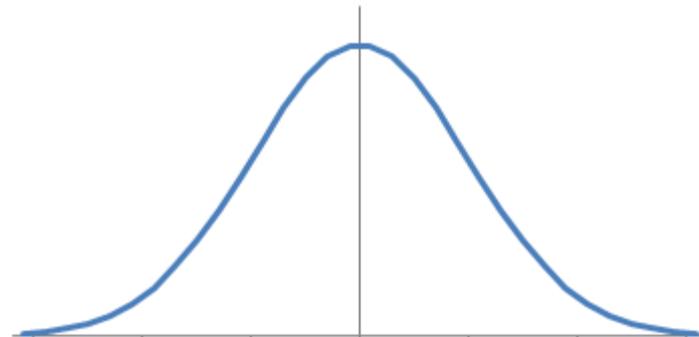
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⇒ 導出したい面積を目で把握  
⇒ 他部分の面積を利用
- ③ 面積の導出: 正規分布表の利用

3-1)

K =

3-2) 正規分布表で該当箇所を探す

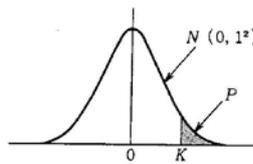
3-3) 求めたい面積を算出

(5) 23分以下でおえる確率は?

⇒

P =

# (6) 18分以上23分以下



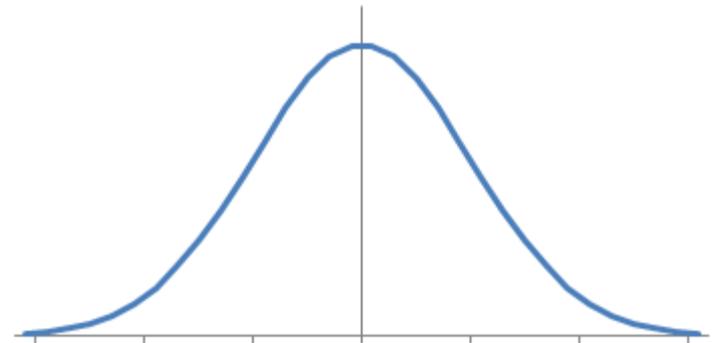
正規分布 ( $\mu=20(\text{分}), \sigma=4(\text{分})$ )

1 PからKを求める表

P	.10	.05	.025	.010	.005
K	1.282	1.645	1.960	2.326	2.576

2 KからPを求める表

K	*=0	1	2	3	4	5	6	7	8	9
.0*	.500 0	.496 0	.492 0	.488 0	.484 0	.480 1	.476 1	.472 1	.468 1	.464 1
.1*	.460 2	.456 2	.452 2	.448 3	.444 3	.440 4	.436 4	.432 5	.428 6	.424 7
.2*	.420 7	.416 8	.412 9	.409 0	.405 2	.401 3	.397 4	.393 6	.389 7	.385 9
.3*	.382 1	.378 3	.374 5	.370 7	.366 9	.363 2	.359 4	.355 7	.352 0	.348 3
.4*	.344 6	.340 9	.337 2	.333 6	.330 0	.326 4	.322 8	.319 2	.315 6	.312 1
.5*	.308 5	.305 0	.301 5	.298 1	.294 6	.291 2	.287 7	.284 3	.281 0	.277 6
.6*	.274 3	.270 9	.267 6	.264 3	.261 1	.257 8	.254 6	.251 4	.248 3	.245 1
.7*	.242 0	.238 9	.235 8	.232 7	.229 6	.226 6	.223 6	.220 6	.217 7	.214 8
.8*	.211 9	.209 0	.206 1	.203 3	.200 5	.197 7	.194 9	.192 2	.189 4	.186 7
.9*	.184 1	.181 4	.178 8	.176 2	.173 6	.171 1	.168 5	.166 0	.163 5	.161 1
1.0*	.158 7	.156 2	.153 9	.151 5	.149 2	.146 9	.144 6	.142 3	.140 1	.137 9
1.1*	.135 7	.133 5	.131 4	.129 2	.127 1	.125 1	.123 0	.121 0	.119 0	.117 0
1.2*	.115 1	.113 1	.111 2	.109 3	.107 5	.105 6	.103 8	.102 0	.100 3	.098 5
1.3*	.096 8	.095 1	.093 4	.091 8	.090 1	.088 5	.086 9	.085 3	.083 8	.082 3
1.4*	.080 8	.079 3	.077 8	.076 4	.074 9	.073 5	.072 1	.070 8	.069 4	.068 1
1.5*	.066 8	.065 5	.064 3	.063 0	.061 8	.060 6	.059 4	.058 2	.057 1	.055 9
1.6*	.054 8	.053 7	.052 6	.051 6	.050 5	.049 5	.048 5	.047 5	.046 5	.045 5
1.7*	.044 6	.043 6	.042 7	.041 8	.040 9	.040 1	.039 2	.038 4	.037 5	.036 7
1.8*	.035 9	.035 1	.034 4	.033 6	.032 9	.032 2	.031 4	.030 7	.030 1	.029 4
1.9*	.028 7	.028 1	.027 4	.026 8	.026 2	.025 6	.025 0	.024 4	.023 9	.023 3
2.0*	.022 8	.022 2	.021 7	.021 2	.020 7	.020 2	.019 7	.019 2	.018 8	.018 3
2.1*	.017 9	.017 4	.017 0	.016 6	.016 2	.015 8	.015 4	.015 0	.014 6	.014 3
2.2*	.013 9	.013 6	.013 2	.012 9	.012 5	.012 2	.011 9	.011 6	.011 3	.011 0
2.3*	.010 7	.010 4	.010 2	.009 9	.009 6	.009 4	.009 1	.008 9	.008 7	.008 4
2.4*	.008 2	.008 0	.007 8	.007 5	.007 3	.007 1	.006 9	.006 8	.006 6	.006 4
2.5*	.006 2	.006 0	.005 9	.005 7	.005 5	.005 4	.005 2	.005 1	.004 9	.004 8
2.6*	.004 7	.004 5	.004 4	.004 3	.004 1	.004 0	.003 9	.003 8	.003 7	.003 6
2.7*	.003 5	.003 4	.003 3	.003 2	.003 1	.003 0	.002 9	.002 8	.002 7	.002 6
2.8*	.002 6	.002 5	.002 4	.002 3	.002 3	.002 2	.002 1	.002 1	.002 0	.001 9
2.9*	.001 9	.001 8	.001 8	.001 7	.001 6	.001 6	.001 5	.001 5	.001 4	.001 4
3.0*	.001 3	.001 3	.001 3	.001 2	.001 2	.001 1	.001 1	.001 1	.001 0	.001 0



- ① 主な目盛りを書く ( $\mu, \sigma$ )
- ② 求めたい範囲を描く  
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⇒ 他部分の面積を利用
- ③ 面積の導出: 正規分布表の利用
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  - 3-2) 正規分布表で該当箇所を探す
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(6) 18分以上23分以下でおえる確率

⇒

P =

例 K=1.46に対するPは、1.4\*の行と \*=6 の列の交わるころの値 .0721 である。