

1. Pracujte s tabulkami kritických hodnot na webu <http://cit.vfu.cz/statwelf/WELF/Te>
2. Pokuste se identifikovat rozdělení na listu Rozdělení.
3. Usoudíte-li, že je to možné, pokuste se transformovat vybraná rozdělení na normální a t
4. Vygenerujte libovolným způsobem 100 hodnot s normálním rozdělením o průměru 5 a v
5. Na listu Pravděpodobnost spočtete podle normalizované Z statistiky za pomoci uvedený
6. Spočtete pravděpodobnost, že koncentrace látky patří do jednoho z uvedených koncent
7. Proč není součet pravděpodobností spočítaných v bodě 6 roven 100 %?
8. Na list Graf vložte sloupcový graf pravděpodobností v jednotlivých koncentračních pásmech

[teorie\tabulky.htm](#)

testovat normalitu jedním z dříve u
vlože je na list 100 hodnot.

ch tabulek pravděpodobnost, že k
račních pásů.

ech. O jaký graf se jedná?

vedených testů.

oncentrace je větší než $320 \mu\text{g}\cdot\text{m}^{-3}$.

Odhadované rozdělení

gama (exponenciální)

gama (exponenciální)

| | |
|-------------|-------------|
| 0.83724792 | 4.61609373 |
| 0.071849582 | 0.608915088 |
| 1.31989358 | 1.75820056 |
| 0.91985278 | 3.12215934 |
| 1.05892946 | 0.834213822 |
| 0.00178966 | 0.837800434 |
| 4.15915917 | 2.60094408 |
| 0.783542872 | 5.18533923 |
| 6.3284335 | 1.83451629 |
| 2.8073022 | 0.577465846 |
| 0.55203912 | 0.131489531 |
| 0.170394839 | 1.57231182 |
| 0.466027577 | 3.59915828 |
| 0.114185821 | 0.737232488 |
| 1.82758919 | 3.23633773 |
| 0.06192141 | 1.10017851 |
| 0.212036995 | 2.54890037 |
| 0.027526495 | 6.71745082 |
| 1.92801684 | 1.38264531 |
| 0.197521788 | 1.86910377 |
| 3.17377047 | 2.11712896 |
| 0.148811037 | 0.852968511 |
| 0.509351005 | 1.31825622 |
| 2.54132275 | 1.32066283 |
| 0.702876862 | 0.686375942 |
| 1.35738303 | 2.49307546 |
| 0.151739659 | 1.20225567 |
| 1.4738019 | 1.47478962 |
| 0.736150556 | 3.06457554 |
| 0.23096583 | 1.46358479 |
| 2.62476041 | 1.92808163 |
| 1.27594857 | 1.68589717 |
| 0.801732927 | 1.11047925 |
| 0.041726587 | 0.377271797 |
| 0.007679839 | 2.91477322 |
| 0.276265948 | 3.14393822 |
| 0.670956762 | 0.124067061 |
| 2.58507514 | 6.60228369 |
| 0.27611967 | 0.874037606 |
| 0.225459692 | 2.67779369 |
| 1.19013975 | 1.66673258 |
| 1.41750937 | 3.63083559 |
| 0.415386056 | 1.48066605 |
| 0.432010834 | 1.78854863 |
| 0.238463996 | 3.32665568 |

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| 0.450007934 | 4.31767945 |
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| 0.217266093 | 0.78527914 |
| 0.109468804 | 1.287577 |
| 2.50419308 | 2.14273821 |
| 2.10892388 | 1.07438398 |
| 0.146475326 | 2.80908187 |
| 2.09145502 | 2.19044442 |
| 1.0323149 | 0.770268925 |
| 1.20839546 | 1.02139249 |
| 0.640756396 | 0.297616571 |
| 2.99182239 | 2.50024209 |
| 0.342962777 | 2.08730876 |
| 0.348470398 | 6.04415206 |
| 0.717577255 | 1.81276428 |
| 4.12650122 | 0.275175607 |
| 0.286196837 | 1.51638096 |
| 0.578617728 | 0.84460481 |
| 0.239297224 | 0.319951028 |
| 0.282632072 | 1.26838315 |
| 0.336426601 | 2.01030092 |
| 0.047664427 | 0.609423593 |
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| 3.36644643 | 7.53220842 |
| 1.12452852 | 1.04666112 |
| 1.89948372 | 0.840595134 |
| 0.807869479 | 1.18509793 |
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| 1.94706915 | 0.04379697 |
| 0.318372743 | 0.575456954 |
| 0.14565372 | 0.881446614 |
| 0.073001802 | 3.51613664 |
| 3.642943 | 0.225511139 |
| 0.955024108 | 3.54284737 |
| 1.17439596 | 5.11648831 |
| 0.35404116 | 4.77127546 |
| 0.127717127 | 0.542940024 |
| 0.559676019 | 0.841594524 |
| 0.013213168 | 2.13143463 |
| 0.845784354 | 3.04816108 |
| 1.58616483 | 2.21548555 |
| 2.92493756 | 0.629703484 |
| 0.8879428 | 0.807477963 |
| 0.676715844 | 1.08919394 |
| 0.457851317 | 2.09421839 |
| 0.17733821 | 3.42135302 |
| 0.083952699 | 0.780820453 |
| 0.599107278 | 1.82457624 |
| 0.120531698 | 3.41610141 |

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| 3.03945892 | 1.73072669 |
| 0.08684067 | 1.81653558 |
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| 1.55247216 | 1.05716119 |
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| 0.097610514 | 1.62858508 |
| 1.77790948 | 2.31114064 |
| 2.18945501 | 1.68989423 |
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| 1.27101806 | 5.15349806 |
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| 0.332138975 | 3.86367505 |
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| 0.633840103 | 2.73653881 |
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| 1.33364097 | 1.6310202 |

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| 0.826950836 | 1.66837038 |
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| 0.275805202 | 2.57631883 |
| 0.374995802 | 0.408381773 |
| 0.009302996 | 0.318578933 |
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| 0.643176391 | 2.3333392 |
| 1.89824124 | 0.88006267 |

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| 0.783563274 | 0.460325747 |
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| 0.829493145 | 0.169658541 |
| 0.490134131 | 0.380581291 |
| 0.158977665 | 0.59805578 |
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| 0.685018828 | 2.33515779 |
| 0.032380635 | 0.726233222 |
| 0.847714473 | 3.15801191 |
| 0.000573512 | 1.82135723 |
| 0.687063678 | 0.910507562 |
| 0.8934284 | 4.62896254 |
| 0.128870501 | 5.81189295 |
| 2.19384794 | 0.666334655 |
| 0.317144286 | 4.96922922 |
| 0.261517215 | 0.836704667 |
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| 0.80409849 | 1.67371118 |
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| 1.28329642 | 1.69578315 |
| 0.56659409 | 3.262265 |
| 3.4269338 | 1.66115834 |
| 0.140886086 | 5.47318827 |
| 0.977404368 | 4.99285271 |
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| 0.23859043 | 1.78305981 |
| 0.63223575 | 5.42148511 |
| 0.867940213 | 1.08406635 |
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| 0.729449691 | 2.95696917 |
| 0.393675152 | 0.579394132 |

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| 0.902713106 | 1.51009003 |
| 1.1090153 | 1.59656778 |
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| 2.03849707 | 3.04570821 |
| 1.32571698 | 3.74982103 |
| 0.465255583 | 4.12924851 |
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| 0.36161954 | 0.608644192 |
| 0.567530997 | 0.384583956 |
| 1.11696009 | 2.68990994 |
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| 0.226107136 | 5.76236686 |
| 0.598329306 | 1.13724486 |
| 0.655443646 | 0.723426239 |
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| 0.598542871 | 3.45897103 |
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| 0.057293498 | 2.36049981 |
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| 0.068189773 | 1.41983649 |
| 1.5433126 | 0.69225711 |
| 0.030987072 | 2.85666321 |
| 1.52070693 | 0.378987055 |
| 0.445122194 | 0.354495651 |
| 1.18780528 | 0.443454339 |
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| 0.097480042 | 2.20451104 |
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| 0.094458261 | 0.113631183 |
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| 0.728997819 | 0.341249168 |
| 0.560779675 | 0.834320034 |
| 2.42581677 | 3.15780298 |
| 1.5929145 | 0.066434557 |
| 1.1239316 | 1.22221038 |
| 1.4519008 | 3.13989153 |
| 0.900011769 | 0.516578166 |
| 2.27883846 | 2.132955 |
| 0.347381738 | 1.80351103 |
| 0.837708277 | 0.590662649 |
| 0.086136751 | 2.43153447 |
| 0.821808633 | 2.980761 |
| 0.817276951 | 0.349982707 |
| 2.14733938 | 3.11653008 |
| 1.29867701 | 4.26262437 |
| 0.25921516 | 0.342879996 |
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| 0.24447225 | 1.91904099 |
| 1.17119093 | 1.01659326 |
| 1.42728946 | 1.14001941 |
| 0.642161839 | 4.18206197 |
| 1.48342539 | 2.59932973 |
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| 1.55245741 | 0.812188909 |
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| 0.491044236 | 2.37750213 |
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| 0.16122473 | 2.12748454 |
| 0.254169052 | 1.29441426 |
| 0.115732079 | 1.50694729 |
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| 0.008627269 | 3.28476857 |
| 3.84387175 | 0.196646401 |
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| 2.35412221 | 4.33445306 |
| 1.25565571 | 0.722553626 |
| 2.73881236 | 1.39014333 |
| 0.701315675 | 0.898731607 |
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| 1.86676978 | 1.6706288 |
| 1.50907065 | 1.28158632 |
| 2.64601556 | 1.40894639 |
| 0.710458773 | 0.796396712 |
| 0.970545316 | 1.05022398 |
| 0.872928448 | 2.66010697 |
| 4.00212312 | 0.821333127 |
| 1.17367914 | 2.08599208 |
| 0.125204355 | 1.05698032 |
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| 2.12689892 | 0.844299018 |
| 0.765041087 | 2.49765744 |
| 0.225237123 | 0.446244761 |
| 1.68098298 | 2.3100758 |
| 1.13394234 | 2.34017885 |
| 1.20479991 | 1.48494512 |
| 1.38945768 | 2.26006783 |
| 0.018111029 | 3.19297985 |
| 0.594952906 | 3.10247837 |
| 0.943626822 | 1.1456328 |
| 0.042616986 | 1.91300355 |
| 1.05834121 | 0.569952356 |
| 0.75511437 | 1.47917392 |
| 0.085590375 | 2.5568409 |
| 1.49792085 | 0.316371298 |
| 0.226123455 | 0.964545518 |
| 2.09797777 | 4.27875226 |
| 0.206018545 | 0.886727611 |
| 0.557720019 | 2.86630352 |
| 0.674619787 | 1.28427357 |
| 0.254875731 | 1.92050222 |
| 0.781810845 | 1.09685887 |
| 0.787420337 | 2.56024572 |

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| 0.184186075 | 3.37438681 |
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| 0.670138319 | 1.84912423 |
| 1.02343603 | 0.572026677 |
| 3.4415223 | 0.930064736 |
| 0.426516194 | 0.638736158 |
| 1.98356716 | 1.17819658 |
| 1.21341771 | 0.970248554 |
| 0.068149539 | 0.223322084 |
| 0.619032566 | 4.34064452 |
| 0.461436382 | 2.46772 |
| 0.937671978 | 1.93984376 |
| 0.301089901 | 1.49721342 |
| 0.034601074 | 1.27342684 |
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| 4.5627402 | 2.87332388 |
| 0.871374625 | 2.93299776 |
| 0.483487226 | 0.767181957 |
| 0.655687176 | 3.0045467 |
| 1.30195949 | 0.455157779 |
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0.865840887

0.664648515
0.754649791
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2.9255537

| rovnoměrné | Weibullovo | lognormální | normální | geometrické |
|-------------|-------------|-------------|------------|-------------|
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| 5.37570545 | 1.11013093 | 4.89032651 | 2.91389649 | 1 |
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| 0.446404205 | 0.749986089 | 6.59317111 | 1.41464975 | 0 |
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| 4.70749084 | 1.217107 | 5.49529653 | 4.88614503 | 0 |

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| 2.30249165 | 1.07224566 | 5.60452417 | 4.34454117 | 2 |
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| 8.06050293 | 0.77313056 | 4.82485184 | 5.88649262 | 3 |
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Vygenerujte 100 normálně rozdělených hodnot o průměru 5:

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| 4.044019 |
| 2.76764 |
| 5.165509 |
| 6.143854 |
| 6.373758 |
| 5.180496 |
| 3.378371 |
| 5.255419 |
| 5.248487 |
| 5.419401 |
| 4.587373 |
| 2.952769 |
| 4.369086 |
| 4.482763 |
| 4.237971 |
| 4.150181 |
| 4.88044 |
| 5.702514 |
| 4.116569 |
| 5.064958 |
| 4.970414 |
| 6.126634 |
| 4.519032 |
| 5.50177 |
| 6.226468 |
| 6.187268 |
| 4.172585 |
| 4.860227 |
| 6.146076 |
| 4.008518 |
| 6.017585 |
| 7.184565 |
| 6.001093 |
| 5.258104 |
| 4.041552 |
| 3.484748 |
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| 4.671219 |
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| 4.045339 |
| 3.872597 |
| 4.14763 |

4.436588
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5.871283
3.856251
4.911965
5.105652
6.028529
6.282155
6.395487
5.354378
4.174183
3.901157
6.334669
6.04884
7.138742
6.221354
4.767262
4.663164
5.689871
5.830503
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6.063566
5.535299
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4.685953
4.520433
6.583885
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6.035463
5.249585
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3.357039
5.670077
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5.139903
6.243613



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| 4.739203 |
| 5.574564 |
| 2.808321 |
| 4.293597 |

Pracujte s tabulkami kritických hodnot na webu <http://cit.vfu.cz/statwelf/WELF>
Předpokládejme nyní, že jsme již zjistili, že střední hodnotakonzentrace měřené látky
Zjistěte:

Pravděpodobnost, že koncentrace je větší než $320 \mu\text{g m}^{-3}$.

Střední hodnota μ $\mu\text{g m}^{-3}$

Směrodatná odchylka σ $\mu\text{g m}^{-3}$

Normovaná Z-statistika Z

Hodnota distribuční funkce F(Z)

Pravděpodobnost $P(X > 320)$ %

Nyní spočtete (při znalosti vlastností distribuční funkce F(X)) podobným způsobem p

Distribuční funkce: až

Distribuční funkce: až

Distribuční funkce: až

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Distribuční funkce: až

Distribuční funkce: až

Proč není součet 100 %?

Na závěr vložte na list graf sloupcový graf výsledků - o jaký graf se jedná?

[\Teorie\tabulky.htm.](#)

y je $300 \mu\text{g m}^{-3}$ se směrodatnou odchylkou $12 \mu\text{g m}^{-3}$.

Pravděpodobnost, že koncentrace se nachází v následujících koncentračních pásmech:

Pravděpodobnost, že koncentrace je $260 \mu\text{g m}^{-3}$ až $270 \mu\text{g m}^{-3}$: 0.57758

Pravděpodobnost, že koncentrace je $270 \mu\text{g m}^{-3}$ až $280 \mu\text{g m}^{-3}$: 4.225

Pravděpodobnost, že koncentrace je $280 \mu\text{g m}^{-3}$ až $290 \mu\text{g m}^{-3}$: 15.484

Pravděpodobnost, že koncentrace je $290 \mu\text{g m}^{-3}$ až $300 \mu\text{g m}^{-3}$: 29.67

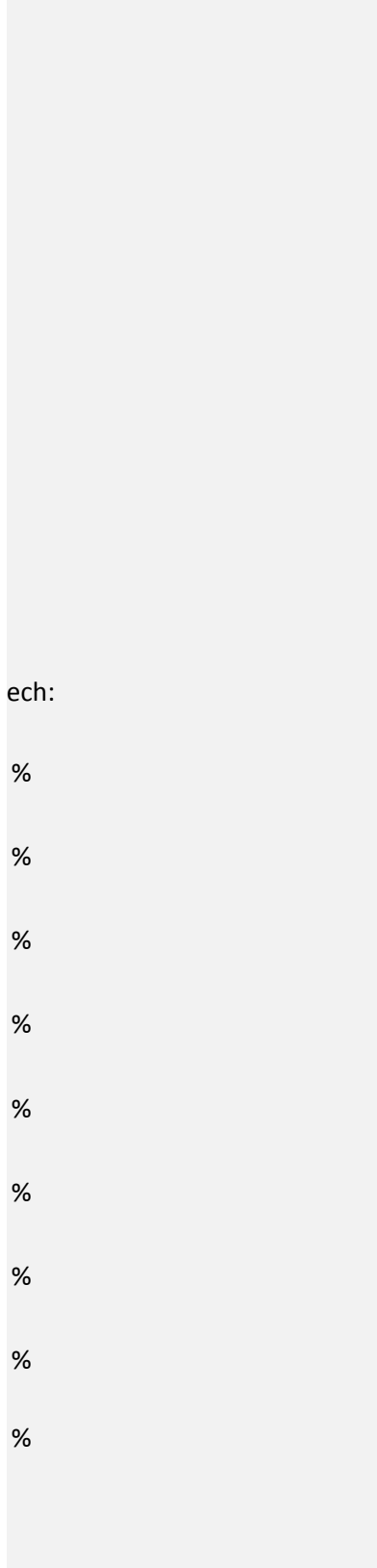
Pravděpodobnost, že koncentrace je $300 \mu\text{g m}^{-3}$ až $310 \mu\text{g m}^{-3}$: 29.67

Pravděpodobnost, že koncentrace je $310 \mu\text{g m}^{-3}$ až $320 \mu\text{g m}^{-3}$: 15.484

Pravděpodobnost, že koncentrace je $320 \mu\text{g m}^{-3}$ až $330 \mu\text{g m}^{-3}$: 4.225

Pravděpodobnost, že koncentrace je $330 \mu\text{g m}^{-3}$ až $340 \mu\text{g m}^{-3}$: 0.57758

Součet: 99.91316



ech:

%

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Histogram

