

# **Formel- og tabelsamling**

**Folkeskolens afsluttende  
prøver i matematik**

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**Folkeskolens afsluttende prøver i matematik**

Publikationen indgår i Uddannelsesstyrelsens håndbogsserie som nr. 2-2005

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Serieredaktion: Werner Hedegaard

Grafisk tilrettelægger: Schwander Kommunikation

Tegninger: Ole Schwander

Omslag: Schwander Kommunikation

2. reviderede udgave, april 2005

ISBN (WWW) 87-603-2472-4

Uddannelsesstyrelsens håndbogsserie (Online) 1399-7394

Internetadresse: [pub.uvm.dk/2005/formelsamling](http://pub.uvm.dk/2005/formelsamling)

Udgivet af Undervisningsministeriet, Uddannelsesstyrelsen,  
Kontor for eksamen og tilsyn, Sektionen for folkeskolens afsluttende prøver

Published in Denmark 2005

Publikationen er udelukkende udgivet i elektronisk form

# Forord

## Til eleven

Denne formel- og tabelsamling kan du bruge i dit daglige arbejde med faget matematik i 7.-10. klasse.

Formel- og tabelsamlingen må du medbringe til afgangsprøven og til 10.-klasseprøven i matematik. Formel- og tabelsamlingen må ikke benyttes til færdighedsdelen til afgangsprøven.

Nogle af formlerne har du måske arbejdet med i en anden udformning, end de er vist her. Du må bruge dine egne optegnelser og anvende den form, du er mest fortrolig med.

## Til læreren

Hensigten med at udarbejde en særlig formel- og tabelsamling til brug ved folkeskolens prøver i matematik er at afgrænse det fagsprog og de matematiske begreber, der uden yderligere forklaring kan indgå i de afsluttende prøver.

Hæftet giver eksempler på fx diagramtyper og faglige udtryksformer, der kan forventes at indgå i de skriftlige opgaver.

I færdighedsdelen til folkeskolens afgangsprøve vil mere specielle formler fra formel- og tabelsamlingen, som fx Herons formel, blive givet i forbindelse med den konkrete opgave.

I problemdelen forventes det, at eleverne benytter formel- og tabelsamlingen.

Formler, der ikke findes i formel- og tabelsamlingen, vil blive givet i forbindelse med den konkrete opgave i problemdelen til FSA og til FS10.

Formel- og tabelsamlingen er ikke en matematisk opslagsbog eller et matematikleksikon i sædvanlig forstand.

Fx er der i forbindelse med  $\sqrt{a}$  ikke angivet nogen definitionsængde for  $a$ . Det er således udeladt, at  $a$  skal være et ikke-negativt tal.

Det internationale enhedssystem, SI-systemet (Système International d'unités), som siden 1976 har været standard for størrelser og enheder i fx undervisningsmaterialer og offentlige publikationer, angiver, at rumenheden liter kan benævnes som et l eller et L.

Da l nemt kan forveksles med tallet 1 kan man med fordel anvende L.

I tabellen over enheder er liter angivet med begge skrivemåder.

Disse og tilsvarende overvejelser og forklaringer bør være en naturlig del af undervisningen i matematik.

Formel- og tabelsamlingen må medbringes til problemdelen af den skriftlige afgangsprøve i matematik og den skriftlige prøve i matematik i 10. klasse. Ligeledes må den anvendes ved den mundtlige del af prøverne.

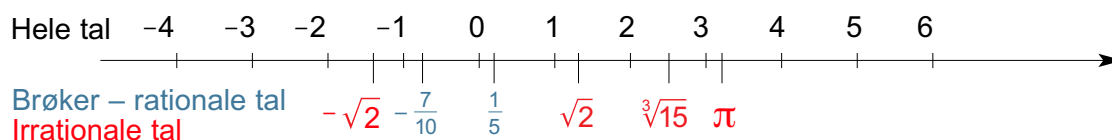
Hæftet må ikke anvendes i færdighedsdelen.

# Indhold

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# Tal og algebra

## Tal



## Primaltal

2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 67, 71, 73, 79, 83, 89, 97, 101, 103, ... kaldes for primaltal.

Et primaltal er et **naturligt** tal, som netop to tal går op i – nemlig 1 og tallet selv.

---

## Sammensatte tal

Et naturligt tal, der ikke er et primaltal, kan på netop én måde skrives som et gangestykke af primaltal:

$$21 = 3 \cdot 7 \quad \rightarrow \quad 21 \text{ er et sammensat tal}$$

$$1827 = 3^2 \cdot 7 \cdot 29 \quad \rightarrow \quad 1827 \text{ er et sammensat tal}$$

# Uligheder – intervaller

Eksempler på intervaller



$$[-2;3] \text{ eller } -2 \leq x \leq 3$$

$$[a;b] \text{ eller } a \leq x \leq b$$

lukket interval fra a til b



$$]-2;3[ \text{ eller } -2 < x < 3$$

$$]a;b[ \text{ eller } a < x < b$$

åbent interval fra a til b



$$]-2;3] \text{ eller } -2 < x \leq 3$$

$$]a;b] \text{ eller } a < x \leq b$$

halvåbent interval fra a til b

---

## Brøker

$$a : b = \frac{a}{b}$$

$$4 : 3 = \frac{4}{3}$$

$$\frac{a}{c} + \frac{b}{c} = \frac{a+b}{c}$$

$$\frac{2}{7} + \frac{3}{7} = \frac{5}{7}$$

$$\frac{a}{c} - \frac{b}{c} = \frac{a-b}{c}$$

$$\frac{5}{12} - \frac{4}{12} = \frac{1}{12}$$

$$a \cdot \frac{b}{c} = \frac{a \cdot b}{c}$$

$$3 \cdot \frac{4}{5} = \frac{3 \cdot 4}{5} = \frac{12}{5}$$

$$\frac{a}{b} \cdot \frac{c}{d} = \frac{a \cdot c}{b \cdot d}$$

$$\frac{4}{5} \cdot \frac{2}{3} = \frac{4 \cdot 2}{5 \cdot 3} = \frac{8}{15}$$

$$\frac{a}{b} : c = \frac{a}{b \cdot c} = \frac{a : c}{b}$$

$$\frac{6}{7} : 2 = \frac{6}{7 \cdot 2} = \frac{6 : 2}{7} = \frac{3}{7}$$

## Kvadratrødder

$$\sqrt{a \cdot b} = \sqrt{a} \cdot \sqrt{b}$$

$$\sqrt{9 \cdot 10} = \sqrt{9} \cdot \sqrt{10} = 3\sqrt{10}$$

$$\sqrt{\frac{a}{b}} = \frac{\sqrt{a}}{\sqrt{b}}$$

$$\sqrt{\frac{3}{100}} = \frac{\sqrt{3}}{\sqrt{100}} = \frac{\sqrt{3}}{10}$$

---

## Tal skrevet som potens

$$a^n = \overbrace{a \cdot a \cdot a \cdot \dots \cdot a}^{n \text{ faktorer}}$$

$$5,1 \cdot 10^6 = 5,1 \text{ mio.} = 5\,100\,000$$

$$a^{-n} = \frac{1}{a^n}$$

$$2^4 = 2 \cdot 2 \cdot 2 \cdot 2 = 16$$

$$a^0 = 1$$

$$10^{-3} = \frac{1}{10^3} = \frac{1}{1000} = 0,001$$

$$10^0 = 1$$

$$a^n \cdot a^p = a^{n+p}$$

$$3^2 \cdot 3^4 = 3^{2+4} = 3^6$$

$$a^n : a^p = a^{n-p}$$

$$\frac{4^5}{4^3} = 4^{5-3} = 4^2$$

$$(a^n)^p = a^{n \cdot p}$$

$$(2^5)^2 = 2^{5 \cdot 2} = 2^{10}$$

$$2 \cdot x^2 = 2 \cdot x \cdot x$$

$$(2 \cdot x)^2 = (2x) \cdot (2x) = 4x^2$$

---

## Parentesregler

$$a + (b - c + d) = a + b - c + d$$

$$a - (-b + c - d) = a + b - c + d$$

$$a \cdot (b - c + d) = a \cdot b - a \cdot c + a \cdot d$$

$$(a + b) \cdot (c - d) = a \cdot c - a \cdot d + b \cdot c - b \cdot d$$

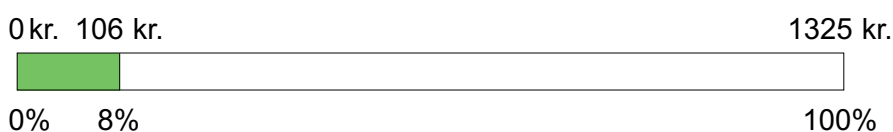
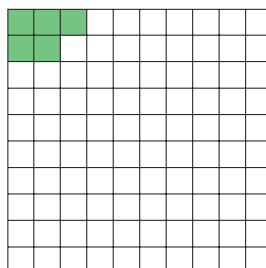
$$(a + b)^2 = (a + b) \cdot (a + b) = a^2 + b^2 + 2ab$$

$$(a - b)^2 = (a - b) \cdot (a - b) = a^2 + b^2 - 2ab$$

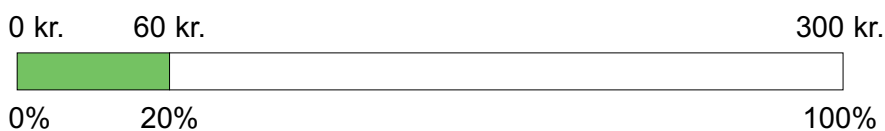
$$(a + b) \cdot (a - b) = a^2 - b^2$$

## Procent

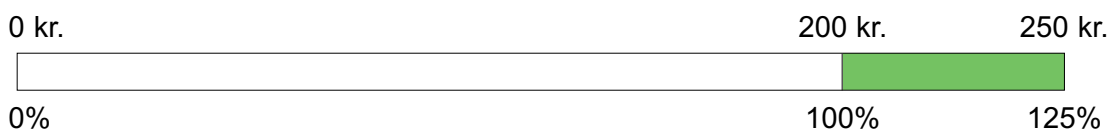
$$5\% = 5 \text{ ud af } 100 = \frac{5}{100} = 0,05$$



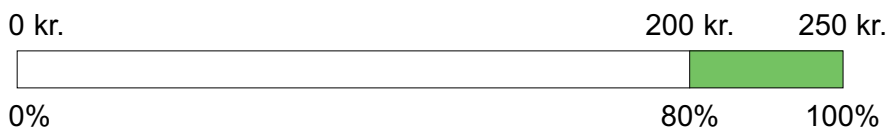
8% af 1325 kr. er  $0,08 \cdot 1325 \text{ kr.} = 106 \text{ kr.}$



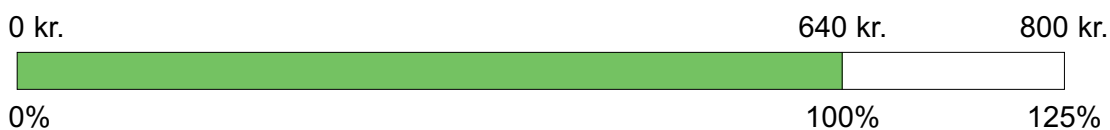
Hvor mange procent er 60 kr. af 300 kr.?  $60 \text{ kr.} : 300 \text{ kr.} = 0,20 = \frac{20}{100} = 20\%$



Hvor mange procent er 250 kr. større end 200 kr.?  $(250 \text{ kr.} - 200 \text{ kr.}) : 200 \text{ kr.} = 0,25 = 25\%$



Hvor mange procent er 200 kr. mindre end 250 kr.?  $(250 \text{ kr.} - 200 \text{ kr.}) : 250 \text{ kr.} = 0,20 = 20\%$



125% af et beløb er 800 kr.

Beløbet er  $800 \text{ kr.} : 1,25 = 640 \text{ kr.}$

## Rente

Renten R af K kroner til p% p.a. i d dage er

$$R = \frac{K \cdot p \cdot d}{100 \cdot D}$$

eller

$$R = K : 100 \cdot p : D \cdot d$$

R: rente

K: beløb, kapital

p: procent pr. år

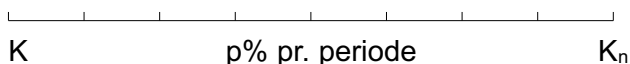
d: antal rentedage

D: antal dage i et renteår

## Vækst

Start-  
værdi

Værdi efter  
n perioder



$$K_n = K(1 + x)^n$$

K: startværdi

p: vækst i procent pr. periode

$x = p : 100$ , væksten i procent angivet som decimaltal

n: antal vækstperioder

$K_n$ : værdi efter n perioder

1 enhed er efter 5 perioder på 1,50% pr. periode vokset til 1,0773

### Væksttabel

$(1 + x)^n$  n er antallet af perioder x er vækst i procent

$0,25\% \leq x \leq 2,50\%$

n \ x	0,25%	0,50%	0,75%	1,00%	1,25%	1,50%	1,75%	2,00%	2,25%	2,50%
1	1,0025	1,0050	1,0075	1,0100	1,0125	1,0150	1,0175	1,0200	1,0225	1,0250
2	1,0050	1,0100	1,0151	1,0201	1,0252	1,0302	1,0353	1,0404	1,0455	1,0506
3	1,0075	1,0151	1,0227	1,0303	1,0380	1,0457	1,0534	1,0612	1,0690	1,0767
4	1,0100	1,0202	1,0303	1,0406	1,0509	1,0614	1,0719	1,0824	1,0931	1,1037
5	1,0126	1,0253	1,0381	1,0510	1,0641	1,0773	1,0906	1,1041	1,1177	1,1314
6	1,0151	1,0304	1,0459	1,0615	1,0774	1,0934	1,1097	1,1262	1,1428	1,1595
7	1,0176	1,0355	1,0537	1,0721	1,0909	1,1098	1,1291	1,1487	1,1685	1,1884
8	1,0202	1,0407	1,0616	1,0829	1,1045	1,1265	1,1489	1,1717	1,1948	1,2180
9	1,0227	1,0459	1,0696	1,0937	1,1183	1,1434	1,1690	1,1951	1,2217	1,2484
10	1,0253	1,0511	1,0776	1,1046	1,1321	1,1601	1,1886	1,2176	1,2471	1,2771
11	1,0278	1,0564	1,0857	1,1146	1,1441	1,1742	1,2048	1,2359	1,2675	1,2996

## Fremmed valuta

350 € til kurs 744 koster

$$350 \cdot 7,44 \text{ kr.} = 3,50 \cdot 744 \text{ kr.} = 2604,00 \text{ kr.}$$

Kurs: Prisen for 100 af den fremmede valuta i danske kroner.

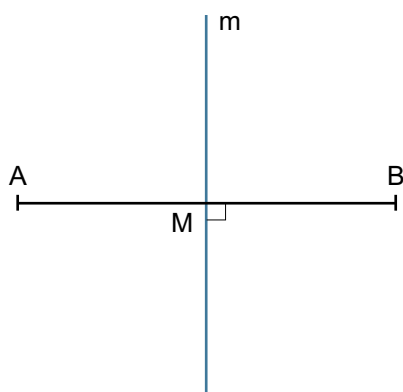
For 500 DKK kan man købe

$$500 : 10,74 \text{ £} \approx 46,55 \text{ £}$$

til kurs 1074.

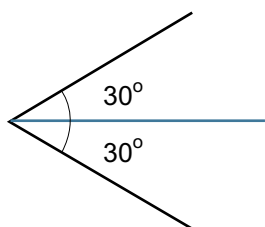
Kursen kan også angives som prisen for 1 af den fremmede valuta i danske kroner.

# Geometri – Begreber

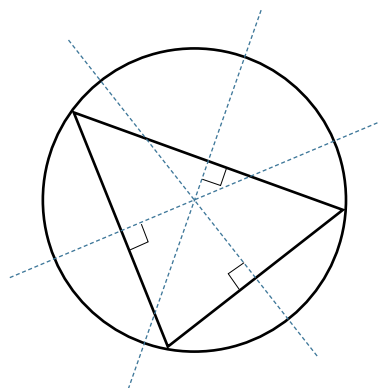


m er **midtnormal** til AB.

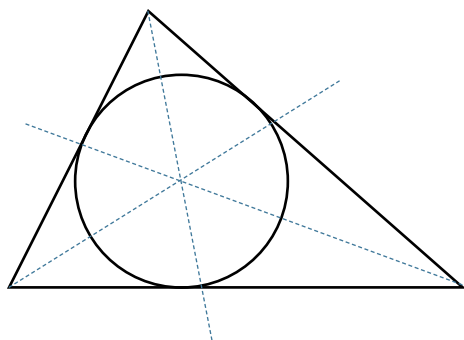
Linjen m er vinkelret på linjestykket AB, og linjen m går gennem midtpunktet M af AB.



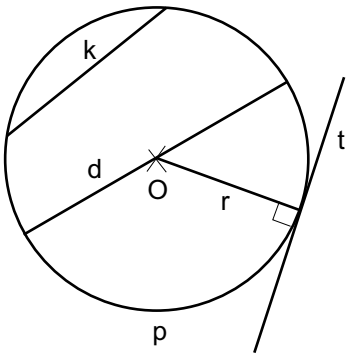
Den linje, der halverer en vinkel, kaldes **vinkelhalveringslinjen**.



**Midtnormalerne** i en trekant skærer hinanden i centrum for den omskrevne cirkel.



**Vinkelhalveringslinjerne** i en trekant skærer hinanden i centrum for den indskrevne cirkel.



O: centrum for cirklen

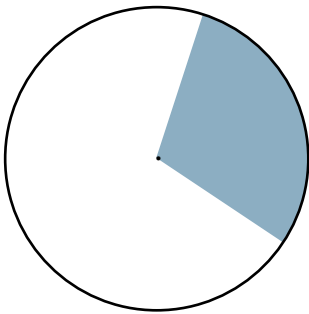
p: cirkelperiferien

d: cirkelns diameter

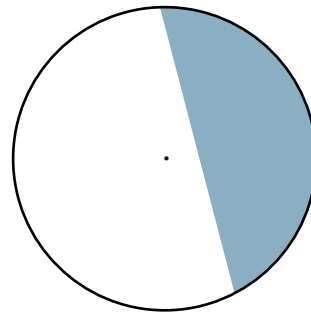
r: cirkelns radius ( $r = \frac{1}{2} \cdot d$ )

t: vinkelret på radius er en tangent til cirklen

k: korde til cirklen – den længste korde er d

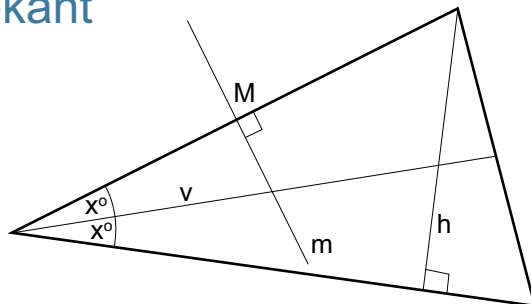


Cirkeludsnit



Cirkelafsnit

## Trekant



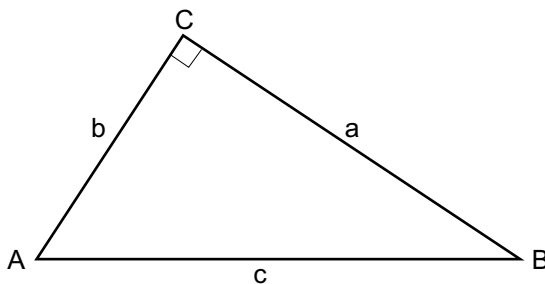
h: højde

v: vinkelhalveringslinje

m: midtnormal

Vinkelsummen i en trekant er  $180^\circ$ .

## Retvinklet trekant



Pythagoras sætning:

$$a^2 + b^2 = c^2$$

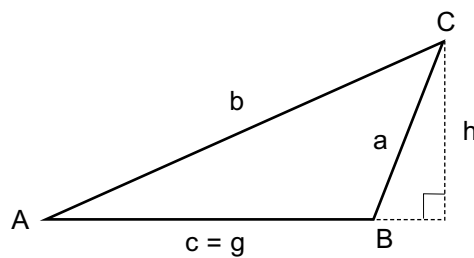
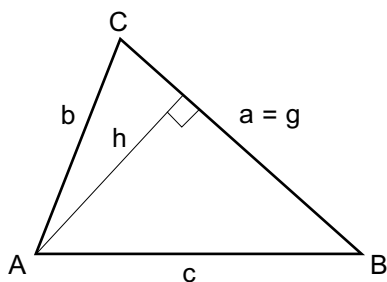
$$c^2 = a^2 + b^2$$

$$b^2 = c^2 - a^2$$

$$a^2 = c^2 - b^2$$

# Geometri – Areal

## Trekant



h: højde  
g: grundlinje  
A: areal

$$A = \frac{1}{2} \cdot h \cdot g$$

s er den halve omkreds:  $s = \frac{a + b + c}{2}$

Herons formel:  $A = \sqrt{s \cdot (s - a) \cdot (s - b) \cdot (s - c)}$

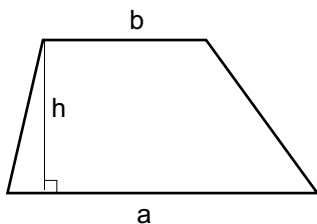
## Rektangel



l : længde  
b : bredde  
A: areal  
O: omkreds

$$A = l \cdot b$$
$$O = 2 \cdot (l + b)$$

## Trapez



h: højde

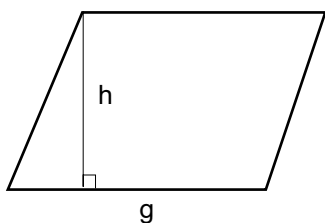
a og b: parallelle sider

A: areal

$$A = \frac{1}{2} \cdot h \cdot (a + b)$$

---

## Parallelogram



h: højde

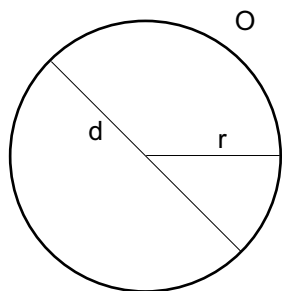
g: grundlinje

A: areal

$$A = h \cdot g$$

---

## Cirkel



r: radius

d: diameter

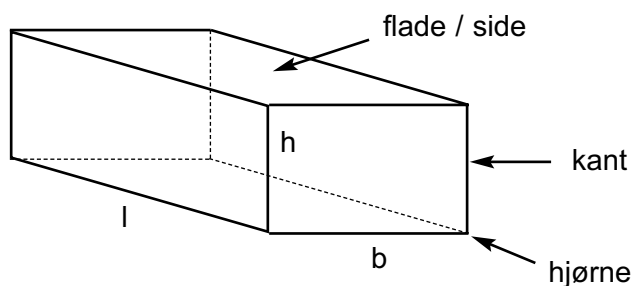
A: areal

O: omkreds

$$\begin{aligned} A &= \pi \cdot r^2 \\ O &= 2 \cdot \pi \cdot r \text{ eller} \\ O &= \pi \cdot d \end{aligned}$$

# Geometri – Rumfang og overflade

## Kasse

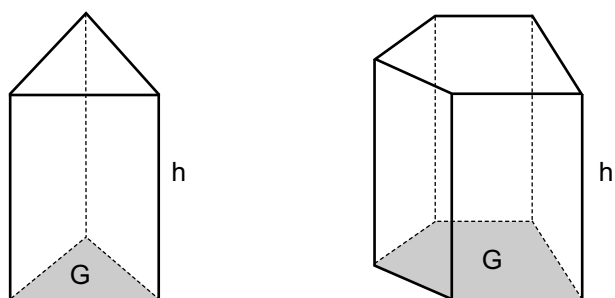


h: højde  
l: længde  
b: bredde  
V: rumfang  
O: overflade

$$V = l \cdot b \cdot h$$

$$O = 2 \cdot (l \cdot h + h \cdot b + b \cdot l)$$

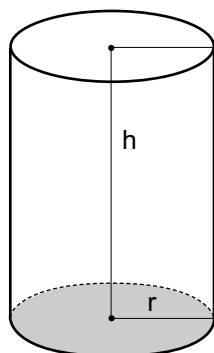
## Prismer



h: højde  
G: areal af grundfladen  
V: rumfang

$$V = h \cdot G$$

## Cylinder

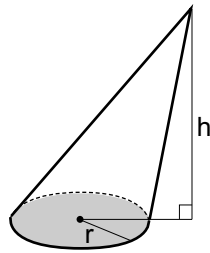
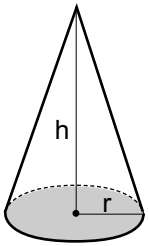


h: højde  
r: radius  
V: rumfang  
O: den krumme overflade

$$V = \pi \cdot r^2 \cdot h$$

$$O = 2 \cdot \pi \cdot r \cdot h$$

## Kegler



h: højde

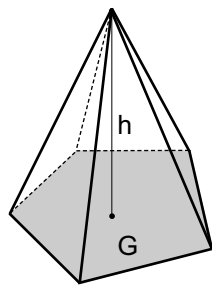
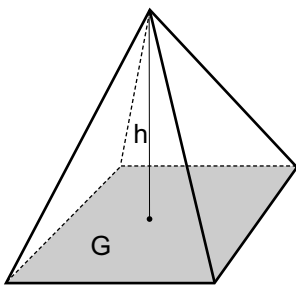
G: areal af grundfladen

V: rumfang

$$V = \frac{1}{3} \cdot h \cdot G$$

---

## Pyramide



h: højde

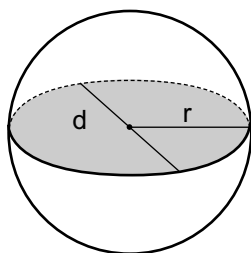
G: areal af grundfladen

V: rumfang

$$V = \frac{1}{3} \cdot h \cdot G$$

---

## Kugle



r: radius

d: diameter

V: rumfang

O: overflade

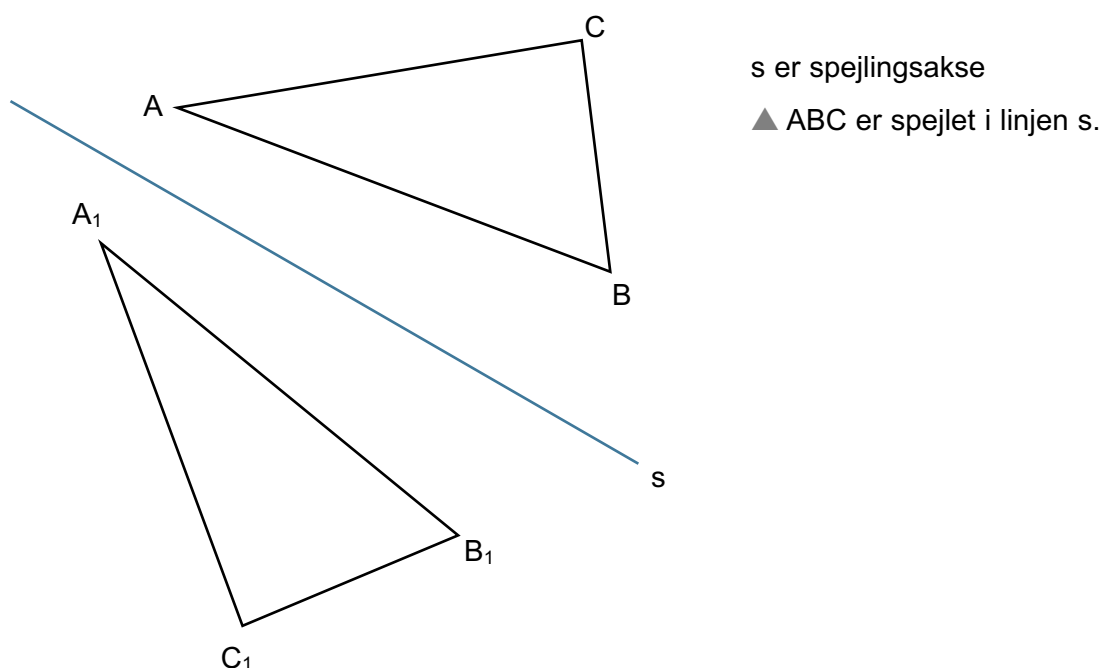
$$V = \frac{4}{3} \cdot \pi \cdot r^3$$
$$O = 4 \cdot \pi \cdot r^2$$

# Geometri – Flytninger

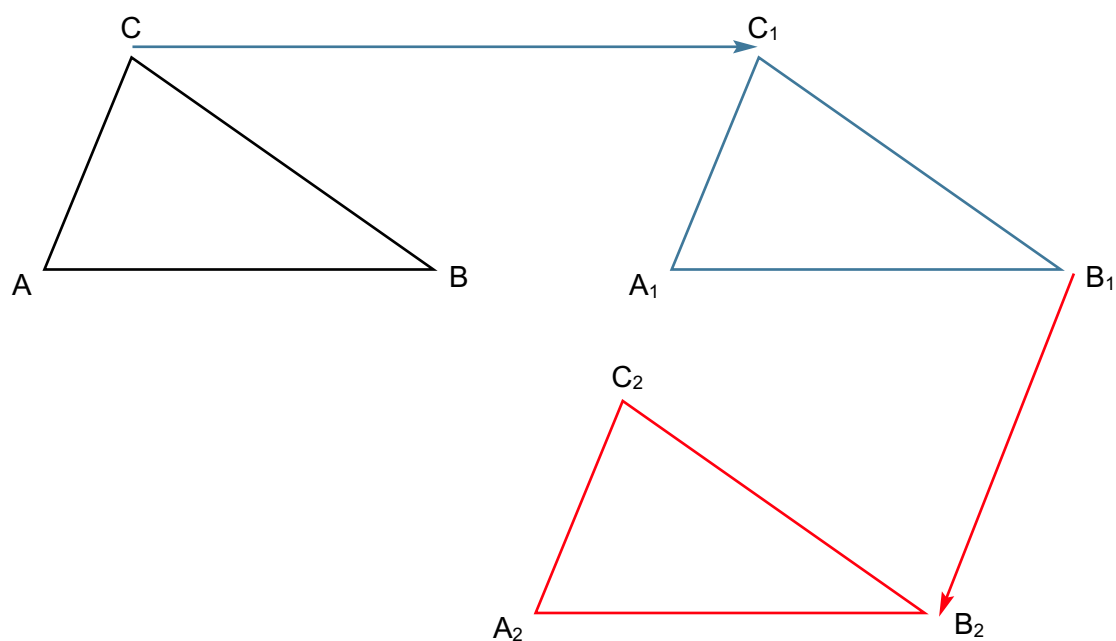
Drejning, spejling og parallelforskydning kaldes for flytninger.

En flytning danner en figur, der er **kongruent** med den flyttede figur.

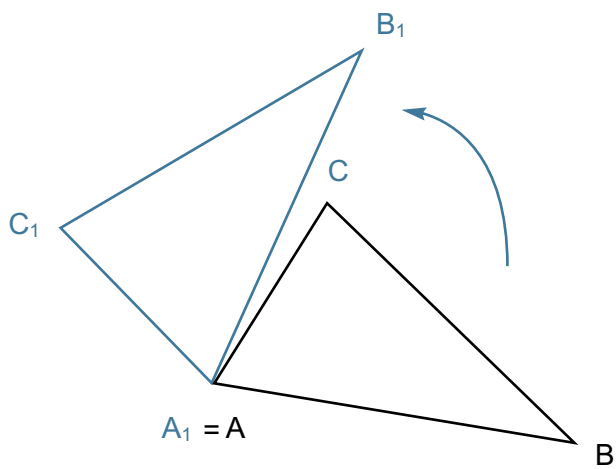
## Spejling



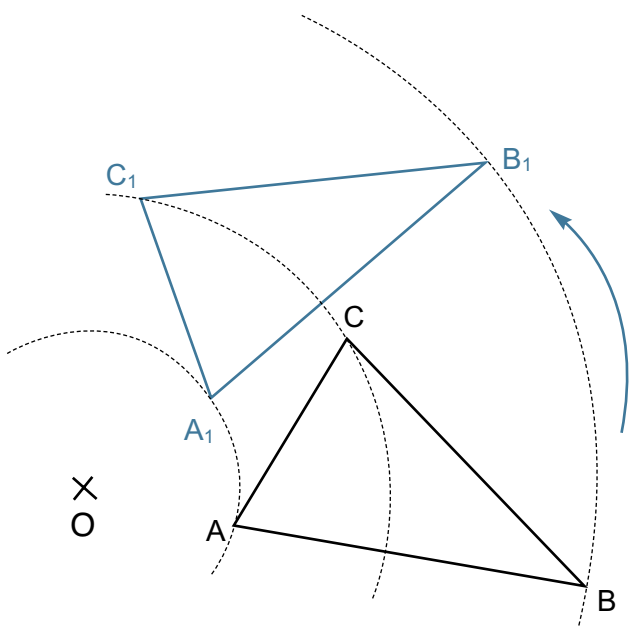
## Parallelforskydning



# Drejning



▲  $ABC$  drejes om  $A$  i ▲  $A_1 B_1 C_1$



▲  $ABC$  drejes om  $O$  i ▲  $A_1 B_1 C_1$

# Geometri – Tegning

## Målestoksforhold



Målestoksforholdet:

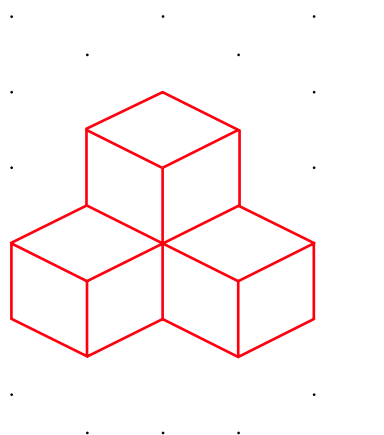
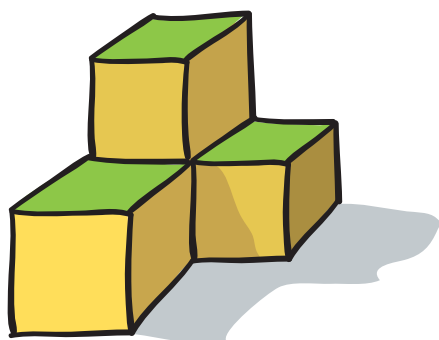
1 : 50000

Afstanden mellem A og B er på kortet 4 cm

Afstanden er i virkeligheden:

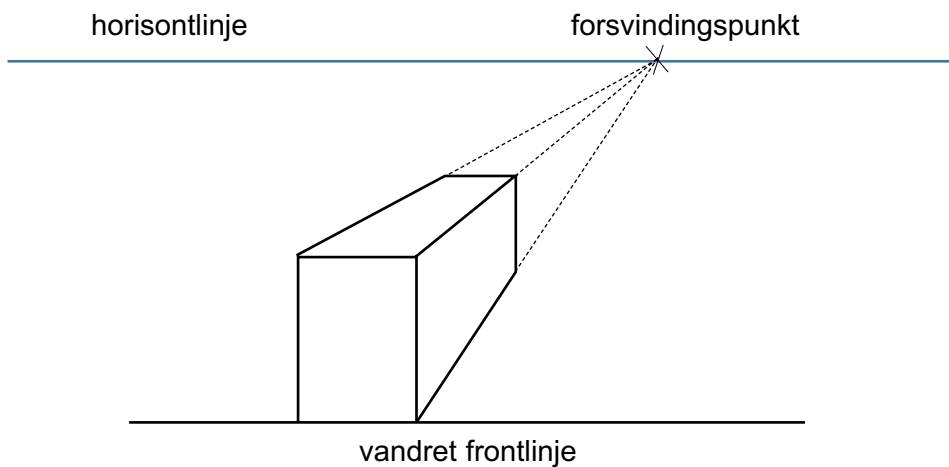
$$50000 \cdot 4 \text{ cm} = 200000 \text{ cm} = 2000 \text{ m}$$

## Isometrisk tegning

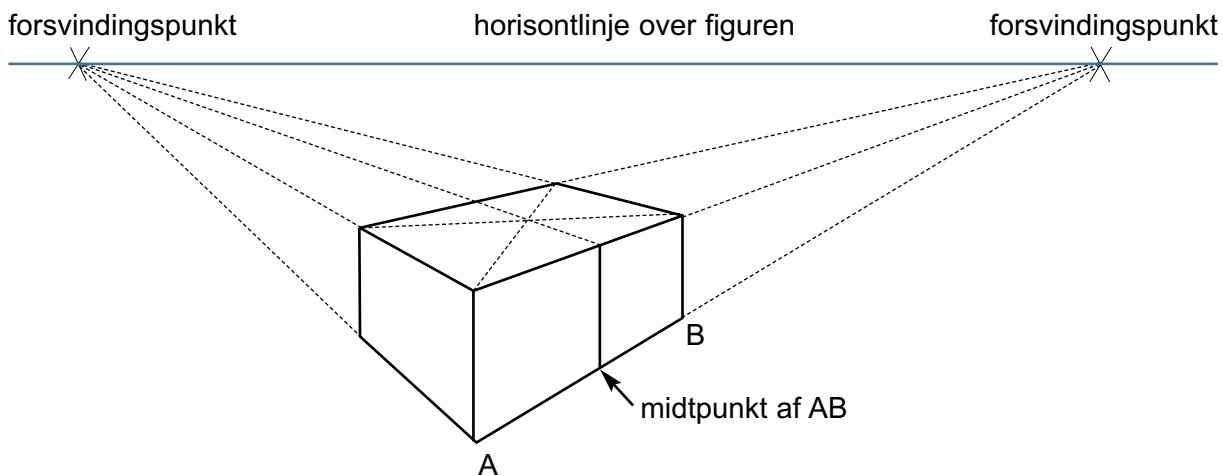
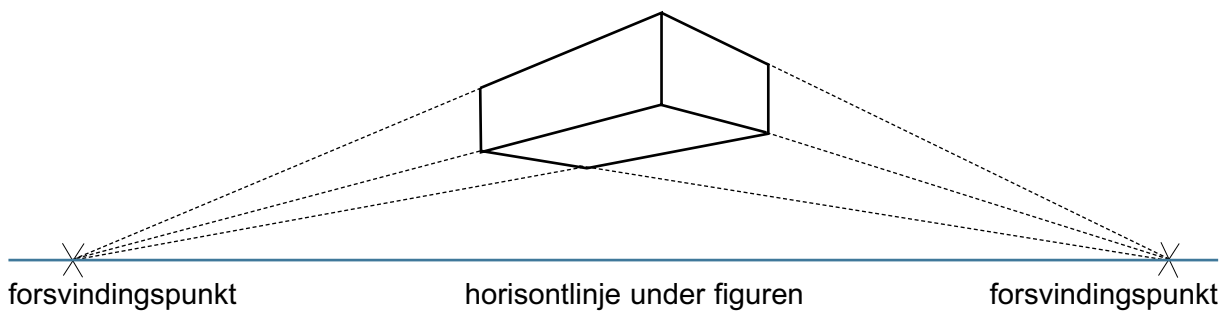


# Perspektivisk tegning

Med 1 forsvindingspunkt:



Med 2 forsvindingspunkter:



# Funktioner

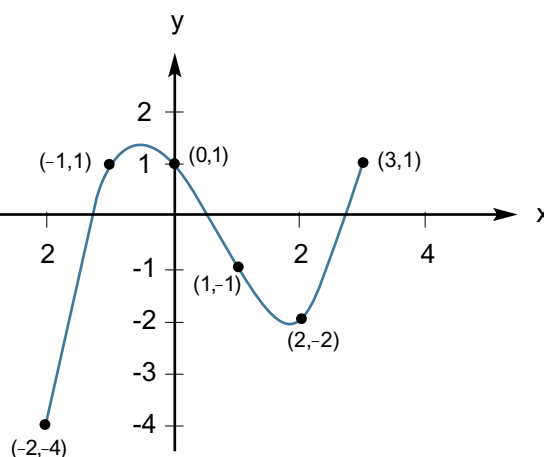
Ligning:

$$y = \frac{1}{2}x^3 - x^2 - 1\frac{1}{2}x + 1$$

Tabel:

x	-2	-1	0	1	2	3
y	-4	1	1	-1	-2	1

Graf:



## Lineær funktion

Ligningen for en linje:

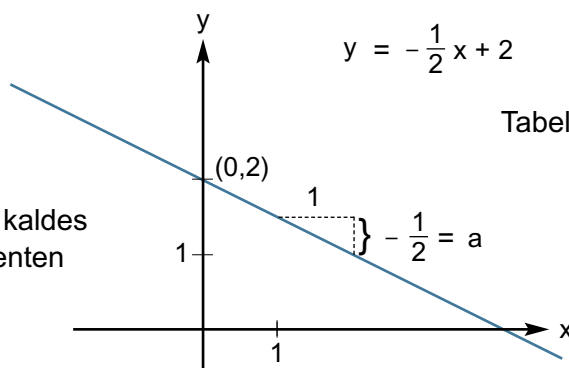
$$y = ax + b$$

a er et udtryk for linjens hældning og kaldes stigningstallet eller hældningskoefficienten

(0,b): skæringspunkt med y-aksen

$(-\frac{b}{a}, 0)$ : skæringspunkt med x-aksen

Graf:



Ligning:

$$y = -\frac{1}{2}x + 2$$

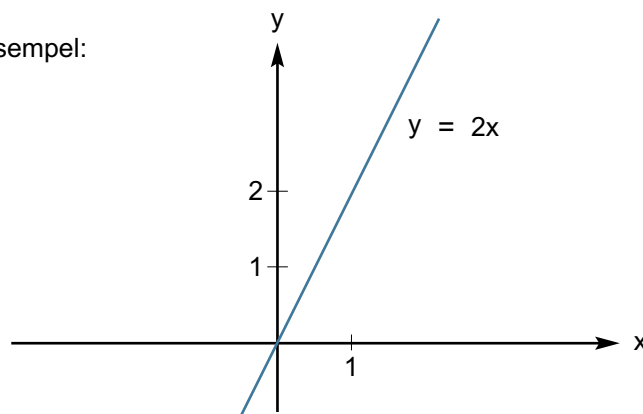
Tabel:

x	0	1	4
y	2	$1\frac{1}{2}$	0

## Ligefrem proportionalitet

$$y = ax$$

Eksempel:



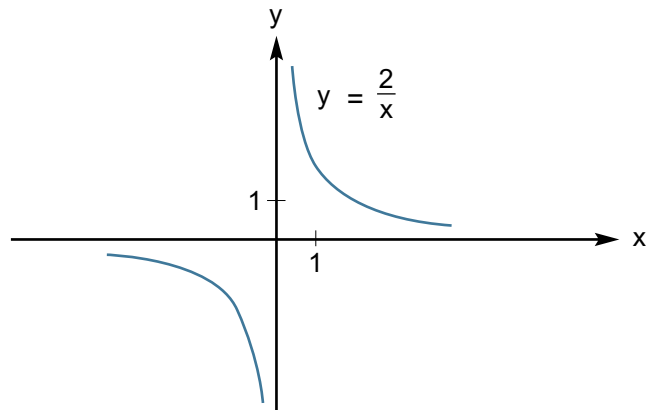
# Omvendt proportionalitet

$$y = a : x$$

eller

$$y = \frac{a}{x} \quad \boxed{x \neq 0}$$

Eksempel:



# Vækstfunktion

Vækstkurve:

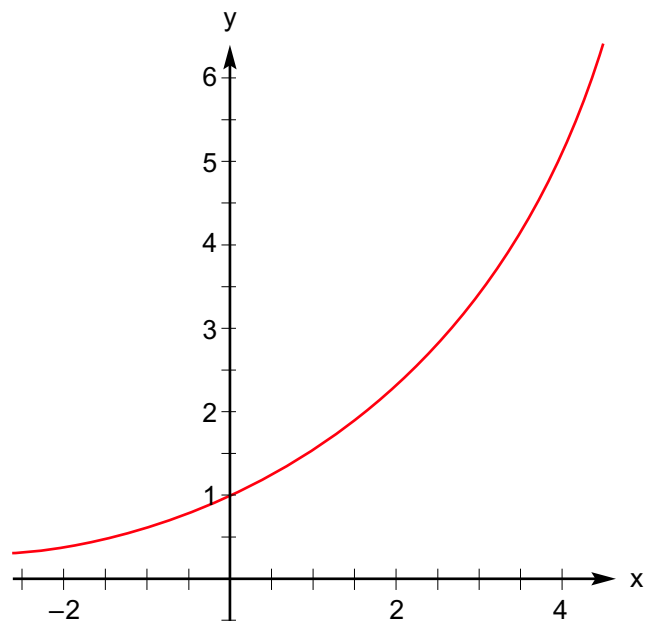
$$K_n = K(1 + x)^n$$

K: startværdi

p: vækstprocent pr. periode

$$x = \frac{p}{100} = p : 100$$

n: antal vækstperioder



Eksempel

$$K = 100\,000$$

$$K_{15} = 100\,000 \cdot (1+0,05)^{15}$$

p: 5

$$x = \frac{5}{100} = 5\% = 0,05$$

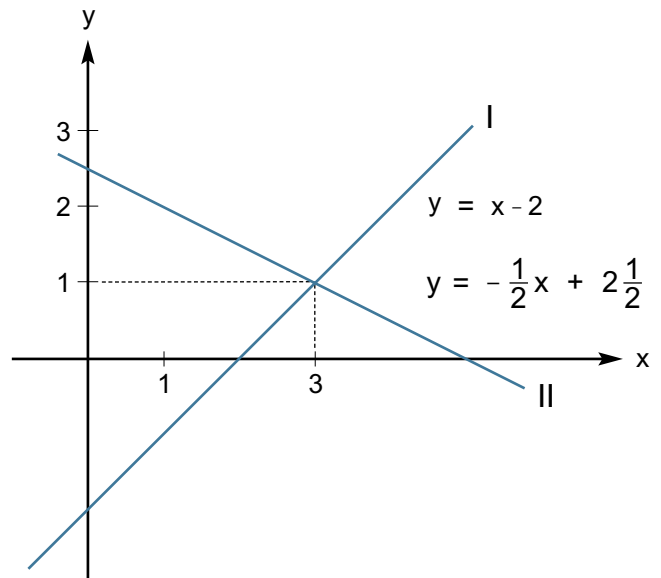
n: antal vækstperioder

## Grafisk ligningsløsning

I:  $y = x - 2$

II:  $y = -\frac{1}{2}x + 2\frac{1}{2}$

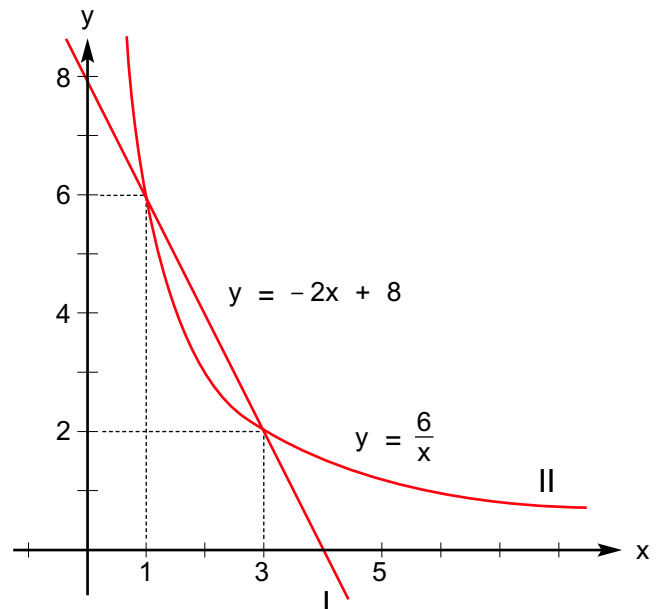
Løsning:  $x = 3$   
 $y = 1$



I:  $y = -2x + 8$

II:  $y = \frac{6}{x}$

Løsninger:  $(x,y) = (1,6)$  og  $(x,y) = (3,2)$

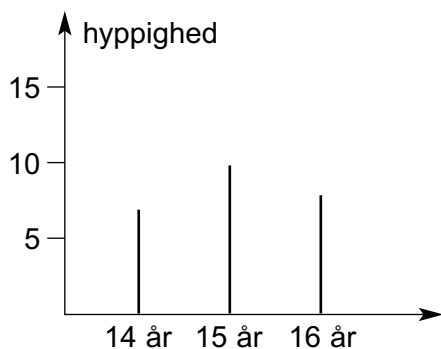


# Statistik

## Nogle forskellige diagramtyper

Diagrammer til angivelse af hyppigheder, frekvenser og procent

Pindediagram



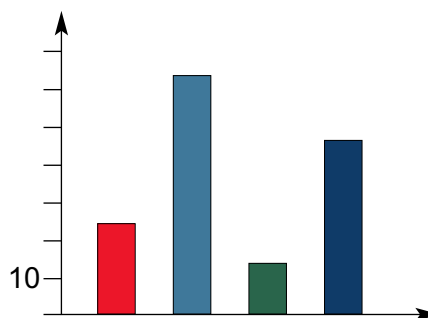
Gennemsnit:

$$(7 \cdot 14 \text{ år} + 10 \cdot 15 \text{ år} + 8 \cdot 16 \text{ år}) : 25 = 15,04 \text{ år}$$

Gennemsnit:

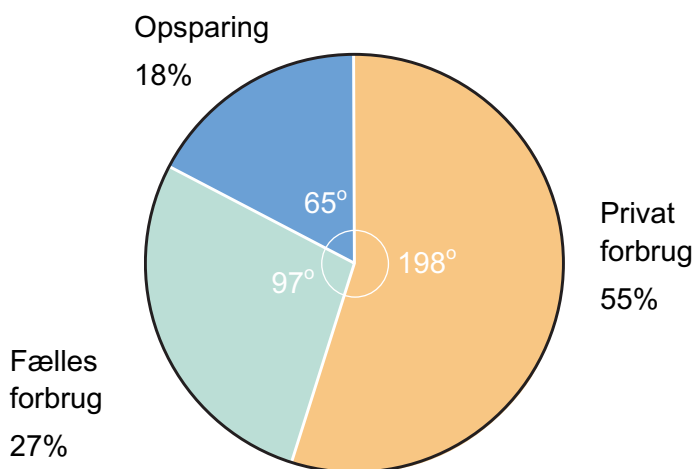
Summen af alle observationer divideret med antallet af observationer

Søjlediagram



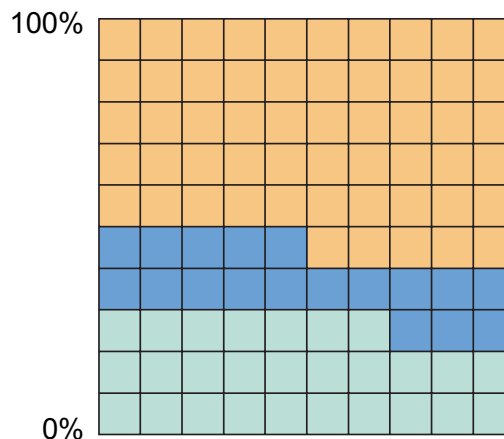
## Diagrammer for procent-fordeling

Cirkeldiagram

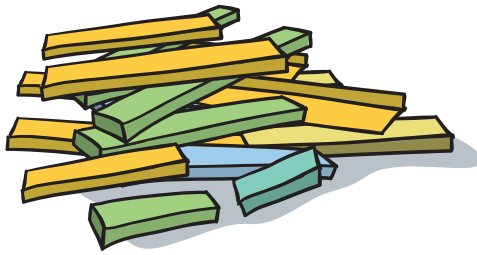


$$27\% \text{ af } 360^\circ = 97,2^\circ \approx 97^\circ$$

Procentdiagram



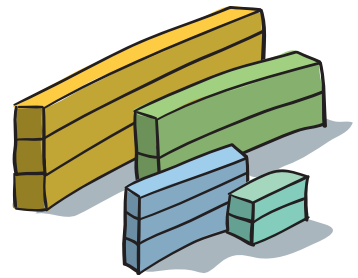
## Observationer



A: Måle  
længder  
og ordne

Alle mål i millimeter

26, 55, 70, 71, 79,  
88, 88, 90, 100, 102,  
116, 125, 138, 138, 138,  
147, 148, 189, 206, 207,  
225, 241, 241, 250



C: Tabellægge observationer

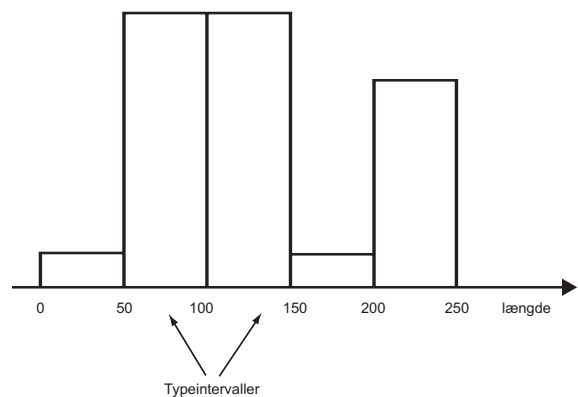
Fordelingstabel

Interval	]0;50]	]50;100]	]100;150]	]150;200]	]200;250]
Hypighed	1	8	8	1	6
Frekvens	4,2%	33,3%	33,3%	4,2%	25,0%
Summeret hypighed	1	9	17	18	24
Summeret frekvens	4,2%	37,5%	70,8%	75,0%	100,0%

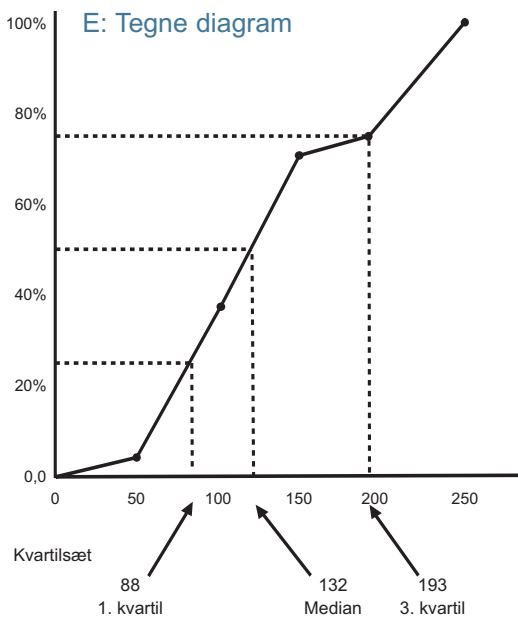
B: Beskrive

typetal: 138  
størsteværdi: 250  
mindsteværdi: 26  
variationsbredde:  $250 - 26 = 224$

D: Tegne diagram



E: Tegne diagram



F: Beskrive

- 1. kvartil : 25% af klodserne er ifølge modellen højst 88 mm lange
- Median : 50% af klodserne er ifølge modellen højst 132 mm lange
- 3. kvartil : 75% af klodserne er ifølge modellen højst 193 mm lange.

G: Udarbejde fordelingstabel

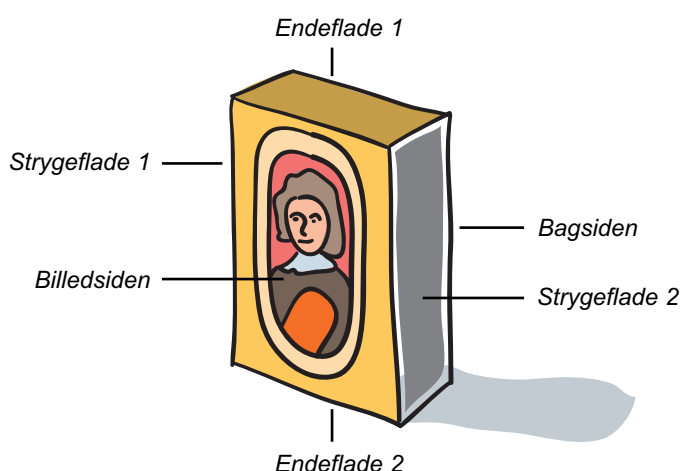
Interval	]0;50]	]50;100]	]100;150]	]150;200]	]200;250]
Midt mellem a og b	25	75	125	175	225
Hypighed	1	8	8	1	6
Samlet længde	$1 \cdot 25$	$8 \cdot 75$	$8 \cdot 125$	$1 \cdot 175$	$6 \cdot 225$

H: Beskrive

Samlet længde er  $1 \cdot 25 \text{ mm} + 8 \cdot 75 \text{ mm} + 8 \cdot 125 \text{ mm} + 1 \cdot 175 \text{ mm} + 6 \cdot 225 \text{ mm} = 3150 \text{ mm}$   
som fordeles mellem 24 klodser:  $3150 \text{ mm} : 24 = 131,25 \text{ mm}$   
Middeltallet er 131 mm.

# Sandsynlighed

Udfaldsrummet for de 250 kast er:



Fordelingstabel for 250 kast med en tændstikæske

	Billedsiden	Bagsiden	Endeflade 1 og 2	Strygeflade 1 og 2
$h(x)$ Hyppigheden	98	103	9	40
$f(x)$ Frekvensen	$\frac{98}{250}$	$\frac{103}{250}$	$\frac{9}{250}$	$\frac{40}{250}$
	0,392	0,412	0,036	0,160
	39,2%	41,2%	3,6%	16,0%

Den **statistiske sandsynlighed** er  $\frac{98}{250} = 0,392 = 39,2\%$  for at billedsiden kommer opad.

Sandsynligheden for snurretoppens 8 mulige udfald 2, 3, 4, 5, 6, 7, 8, 9 betragtes som lige store.

Sandsynlighederne er **jævnt fordelt**, så for udfaldet "2" bliver sandsynligheden

$$P(2) = \frac{1}{8} = 0,125 = 12,5\%$$

Sandsynligheden for **hændelsen**, at snurretoppen lander på et lige tal, er

$$P(\text{lige tal}) = \frac{\text{antal gunstige}}{\text{antal mulige}} = \frac{4}{8} = 0,50 = 50\%$$

Antallet af tal 2, 4, 6 og 8 kaldes her for hændelsens **gunstige udfald**.

Antallet af kanter på snurretoppen kaldes her for de **mulige udfald**.



# Masse og måleenheder

## Vægt

$$\text{Masse} = \text{massefylde} \cdot \text{rumfang}$$

$$\text{massefylde} = \frac{\text{masse}}{\text{rumfang}}$$

Et lod vejer 105 g og har et rumfang på 15 cm<sup>3</sup>.

Massefylden er: 105 g : 15 cm<sup>3</sup> = 7,0 g/cm<sup>3</sup>

$$7,0 \text{ g/cm}^3 = 7,0 \frac{\text{g}}{\text{cm}^3}$$

Et lod vejer 70 kg og har et rumfang på 7 dm<sup>3</sup>.

Massefylden er: 70 kg : 7 dm<sup>3</sup> = 10 kg/dm<sup>3</sup>

Et lod vejer 50 tons og har et rumfang på 10 m<sup>3</sup>.

Massefylden er: 50 tons : 10 m<sup>3</sup> = 5 tons/m<sup>3</sup>

Et lod vejer 3,0 kg og har et rumfang på 0,1 m<sup>3</sup>.

Massefylden er: 3,0 kg : 0,1 m<sup>3</sup> = 30 kg/m<sup>3</sup>

I SI-systemet benævnes massefylde som kg/m<sup>3</sup> =  $\frac{\text{kg}}{\text{m}^3}$ .

$$\text{Dvs. } 3,0 \text{ g/cm}^3 = 3 \frac{\text{kg}}{\text{dm}^3} = 3000 \frac{\text{kg}}{\text{m}^3}$$

# Måleenheder

SI-systemet er det internationale system for, hvordan man angiver enheder.

I skemaet over enheder er der med blått tilføjet angivelser for enheden liter skrevet med et stort L, som det kan skrives i SI-systemet.

## Længde

1 km	1 hm	1 dam	1 m	1 dm	1 cm	1 mm
1000 m	100 m	10 m	1 m	0,1 m	0,01 m	0,001 m
$10^3$ m	$10^2$ m	$10^1$ m	$10^0$ m	$10^{-1}$ m	$10^{-2}$ m	$10^{-3}$ m

---

## Areal

1 km <sup>2</sup>	1 hm <sup>2</sup>	1 dam <sup>2</sup>	1 m <sup>2</sup>	1 dm <sup>2</sup>	1 cm <sup>2</sup>	1 mm <sup>2</sup>
1000000 m <sup>2</sup>	10000 m <sup>2</sup>	100 m <sup>2</sup>	1 m <sup>2</sup>	0,01 m <sup>2</sup>	0,0001 m <sup>2</sup>	0,000001 m <sup>2</sup>
$10^6$ m <sup>2</sup>	$10^4$ m <sup>2</sup>	$10^2$ m <sup>2</sup>	$10^0$ m <sup>2</sup>	$10^{-2}$ m <sup>2</sup>	$10^{-4}$ m <sup>2</sup>	$10^{-6}$ m <sup>2</sup>
	1 ha					

## Rumfang

1 km <sup>3</sup>	1 hm <sup>3</sup>	1 dam <sup>3</sup>	1 m <sup>3</sup>	1 dm <sup>3</sup>	1 cm <sup>3</sup>	1 mm <sup>3</sup>
1000000000 m <sup>3</sup>	1000000 m <sup>3</sup>	1000 m <sup>3</sup>	1 m <sup>3</sup>	0,001 m <sup>3</sup>	0,000001 m <sup>3</sup>	0,000000001 m <sup>3</sup>
10 <sup>9</sup> m <sup>3</sup>	10 <sup>6</sup> m <sup>3</sup>	10 <sup>3</sup> m <sup>3</sup>	10 <sup>0</sup> m <sup>3</sup>	10 <sup>-3</sup> m <sup>3</sup>	10 <sup>-6</sup> m <sup>3</sup>	10 <sup>-9</sup> m <sup>3</sup>
				1 kl = 1 kL	1 l = 1 L	1 ml = 1 mL

1 m <sup>3</sup>			1 dm <sup>3</sup>			1 cm <sup>3</sup>
1 kl = 1 kL	1 hl = 1 hL	1 dal = 1 daL	1 l = 1 L	1 dl = 1 dL	1 cl = 1 cL	1 ml = 1 mL
1000 l = 1000L	100 hl = 100hL	10 l = 10L	1 l = 1L	0,1l = 0,1L	0,01 l = 0,01L	0,001 l = 0,001L
			10 dl = 10 dL			
			100 cl = 100 cL			
			1000 ml = 1000 mL			

Sjældent anvendte måleenheder

## Vægt

1 t	1 kg	1 hg	1 dag	1 g	1 dg	1 cg	1 mg
1000000 g = 1000 kg	1000 g	100 g	10 g	1 g	0,1 g	0,01 g	0,001 g
				1000 mg	100 mg	10 mg	

Sjældent anvendte måleenheder

Præfiks	Titalspotens
T, tera	$10^{12}$
G, giga	$10^9$
M, mega	$10^6$
k, kilo	$10^3$
h, hekto	$10^2$
da, deka	$10^1$
d, deci	$10^{-1}$
c, centi	$10^{-2}$
m, milli	$10^{-3}$
$\mu$ , mikro	$10^{-6}$
n, nano	$10^{-9}$
p, pico	$10^{-12}$

$(1 + x)^n$  n er antallet af perioder x er vækst i procent

$0,25\% \leq x \leq 2,50\%$

n\%	0,25%	0,50%	0,75%	1,00%	1,25%	1,50%	1,75%	2,00%	2,25%	2,50%
1	1,0025	1,0050	1,0075	1,0100	1,0125	1,0150	1,0175	1,0200	1,0225	1,0250
2	1,0050	1,0100	1,0151	1,0201	1,0252	1,0302	1,0353	1,0404	1,0455	1,0506
3	1,0075	1,0151	1,0227	1,0303	1,0380	1,0457	1,0534	1,0612	1,0690	1,0769
4	1,0100	1,0202	1,0303	1,0406	1,0509	1,0614	1,0719	1,0824	1,0931	1,1038
5	1,0126	1,0253	1,0381	1,0510	1,0641	1,0773	1,0906	1,1041	1,1177	1,1314
6	1,0151	1,0304	1,0459	1,0615	1,0774	1,0934	1,1097	1,1262	1,1428	1,1597
7	1,0176	1,0355	1,0537	1,0721	1,0909	1,1098	1,1291	1,1487	1,1685	1,1887
8	1,0202	1,0407	1,0616	1,0829	1,1045	1,1265	1,1489	1,1717	1,1948	1,2184
9	1,0227	1,0459	1,0696	1,0937	1,1183	1,1434	1,1690	1,1951	1,2217	1,2489
10	1,0253	1,0511	1,0776	1,1046	1,1323	1,1605	1,1894	1,2190	1,2492	1,2801
11	1,0278	1,0564	1,0857	1,1157	1,1464	1,1779	1,2103	1,2434	1,2773	1,3121
12	1,0304	1,0617	1,0938	1,1268	1,1608	1,1956	1,2314	1,2682	1,3060	1,3449
13	1,0330	1,0670	1,1020	1,1381	1,1753	1,2136	1,2530	1,2936	1,3354	1,3785
14	1,0356	1,0723	1,1103	1,1495	1,1900	1,2318	1,2749	1,3195	1,3655	1,4130
15	1,0382	1,0777	1,1186	1,1610	1,2048	1,2502	1,2972	1,3459	1,3962	1,4483
16	1,0408	1,0831	1,1270	1,1726	1,2199	1,2690	1,3199	1,3728	1,4276	1,4845
17	1,0434	1,0885	1,1354	1,1843	1,2351	1,2880	1,3430	1,4002	1,4597	1,5216
18	1,0460	1,0939	1,1440	1,1961	1,2506	1,3073	1,3665	1,4282	1,4926	1,5597
19	1,0486	1,0994	1,1525	1,2081	1,2662	1,3270	1,3904	1,4568	1,5262	1,5987
20	1,0512	1,1049	1,1612	1,2202	1,2820	1,3469	1,4148	1,4859	1,5605	1,6386
21	1,0538	1,1104	1,1699	1,2324	1,2981	1,3671	1,4395	1,5157	1,5956	1,6796
22	1,0565	1,1160	1,1787	1,2447	1,3143	1,3876	1,4647	1,5460	1,6315	1,7216
23	1,0591	1,1216	1,1875	1,2572	1,3307	1,4084	1,4904	1,5769	1,6682	1,7646
24	1,0618	1,1272	1,1964	1,2697	1,3474	1,4295	1,5164	1,6084	1,7058	1,8087
25	1,0644	1,1328	1,2054	1,2824	1,3642	1,4509	1,5430	1,6406	1,7441	1,8539
26	1,0671	1,1385	1,2144	1,2953	1,3812	1,4727	1,5700	1,6734	1,7834	1,9003
27	1,0697	1,1442	1,2235	1,3082	1,3985	1,4948	1,5975	1,7069	1,8235	1,9478
28	1,0724	1,1499	1,2327	1,3213	1,4160	1,5172	1,6254	1,7410	1,8645	1,9965
29	1,0751	1,1556	1,2420	1,3345	1,4337	1,5400	1,6539	1,7758	1,9065	2,0464
30	1,0778	1,1614	1,2513	1,3478	1,4516	1,5631	1,6828	1,8114	1,9494	2,0976
31	1,0805	1,1672	1,2607	1,3613	1,4698	1,5865	1,7122	1,8476	1,9933	2,1500
32	1,0832	1,1730	1,2701	1,3749	1,4881	1,6103	1,7422	1,8845	2,0381	2,2038
33	1,0859	1,1789	1,2796	1,3887	1,5067	1,6345	1,7727	1,9222	2,0840	2,2589
34	1,0886	1,1848	1,2892	1,4026	1,5256	1,6590	1,8037	1,9607	2,1308	2,3153
35	1,0913	1,1907	1,2989	1,4166	1,5446	1,6839	1,8353	1,9999	2,1788	2,3732
36	1,0941	1,1967	1,3086	1,4308	1,5639	1,7091	1,8674	2,0399	2,2278	2,4325
37	1,0968	1,2027	1,3185	1,4451	1,5835	1,7348	1,9001	2,0807	2,2779	2,4933
38	1,0995	1,2087	1,3283	1,4595	1,6033	1,7608	1,9333	2,1223	2,3292	2,5557
39	1,1023	1,2147	1,3383	1,4741	1,6233	1,7872	1,9672	2,1647	2,3816	2,6196
40	1,1050	1,2208	1,3483	1,4889	1,6436	1,8140	2,0016	2,2080	2,4352	2,6851
41	1,1078	1,2269	1,3585	1,5038	1,6642	1,8412	2,0366	2,2522	2,4900	2,7522
42	1,1106	1,2330	1,3686	1,5188	1,6850	1,8688	2,0723	2,2972	2,5460	2,8210
43	1,1133	1,2392	1,3789	1,5340	1,7060	1,8969	2,1085	2,3432	2,6033	2,8915
44	1,1161	1,2454	1,3893	1,5493	1,7274	1,9253	2,1454	2,3901	2,6619	2,9638
45	1,1189	1,2516	1,3997	1,5648	1,7489	1,9542	2,1830	2,4379	2,7218	3,0379
46	1,1217	1,2579	1,4102	1,5805	1,7708	1,9835	2,2212	2,4866	2,7830	3,1139
47	1,1245	1,2642	1,4207	1,5963	1,7929	2,0133	2,2600	2,5363	2,8456	3,1917
48	1,1273	1,2705	1,4314	1,6122	1,8154	2,0435	2,2996	2,5871	2,9096	3,2715
49	1,1301	1,2768	1,4421	1,6283	1,8380	2,0741	2,3398	2,6388	2,9751	3,3533
50	1,1330	1,2832	1,4530	1,6446	1,8610	2,1052	2,3808	2,6916	3,0420	3,4371

$(1 + x)^n$  n er antallet af perioder x er vækst i procent

$2,75\% \leq x \leq 5,00\%$

n\%	2,75%	3,00%	3,25%	3,50%	3,75%	4,00%	4,25%	4,50%	4,75%	5,00%
1	1,0275	1,0300	1,0325	1,0350	1,0375	1,0400	1,0425	1,0450	1,0475	1,0500
2	1,0558	1,0609	1,0661	1,0712	1,0764	1,0816	1,0868	1,0920	1,0973	1,1025
3	1,0848	1,0927	1,1007	1,1087	1,1168	1,1249	1,1330	1,1412	1,1494	1,1576
4	1,1146	1,1255	1,1365	1,1475	1,1587	1,1699	1,1811	1,1925	1,2040	1,2155
5	1,1453	1,1593	1,1734	1,1877	1,2021	1,2167	1,2313	1,2462	1,2612	1,2763
6	1,1768	1,1941	1,2115	1,2293	1,2472	1,2653	1,2837	1,3023	1,3211	1,3401
7	1,2091	1,2299	1,2509	1,2723	1,2939	1,3159	1,3382	1,3609	1,3838	1,4071
8	1,2424	1,2668	1,2916	1,3168	1,3425	1,3686	1,3951	1,4221	1,4495	1,4775
9	1,2765	1,3048	1,3336	1,3629	1,3928	1,4233	1,4544	1,4861	1,5184	1,5513
10	1,3117	1,3439	1,3769	1,4106	1,4450	1,4802	1,5162	1,5530	1,5905	1,6289
11	1,3477	1,3842	1,4216	1,4600	1,4992	1,5395	1,5807	1,6229	1,6661	1,7103
12	1,3848	1,4258	1,4678	1,5111	1,5555	1,6010	1,6478	1,6959	1,7452	1,7959
13	1,4229	1,4685	1,5156	1,5640	1,6138	1,6651	1,7179	1,7722	1,8281	1,8856
14	1,4620	1,5126	1,5648	1,6187	1,6743	1,7317	1,7909	1,8519	1,9149	1,9799
15	1,5022	1,5580	1,6157	1,6753	1,7371	1,8009	1,8670	1,9353	2,0059	2,0789
16	1,5435	1,6047	1,6682	1,7340	1,8022	1,8730	1,9463	2,0224	2,1012	2,1829
17	1,5860	1,6528	1,7224	1,7947	1,8698	1,9479	2,0291	2,1134	2,2010	2,2920
18	1,6296	1,7024	1,7784	1,8575	1,9399	2,0258	2,1153	2,2085	2,3055	2,4066
19	1,6744	1,7535	1,8362	1,9225	2,0127	2,1068	2,2052	2,3079	2,4151	2,5270
20	1,7204	1,8061	1,8958	1,9898	2,0882	2,1911	2,2989	2,4117	2,5298	2,6533
21	1,7677	1,8603	1,9575	2,0594	2,1665	2,2788	2,3966	2,5202	2,6499	2,7860
22	1,8164	1,9161	2,0211	2,1315	2,2477	2,3699	2,4985	2,6337	2,7758	2,9253
23	1,8663	1,9736	2,0868	2,2061	2,3320	2,4647	2,6047	2,7522	2,9077	3,0715
24	1,9176	2,0328	2,1546	2,2833	2,4194	2,5633	2,7153	2,8760	3,0458	3,2251
25	1,9704	2,0938	2,2246	2,3632	2,5102	2,6658	2,8308	3,0054	3,1904	3,3864
26	2,0245	2,1566	2,2969	2,4460	2,6043	2,7725	2,9511	3,1407	3,3420	3,5557
27	2,0802	2,2213	2,3715	2,5316	2,7020	2,8834	3,0765	3,2820	3,5007	3,7335
28	2,1374	2,2879	2,4486	2,6202	2,8033	2,9987	3,2072	3,4297	3,6670	3,9201
29	2,1962	2,3566	2,5282	2,7119	2,9084	3,1187	3,3435	3,5840	3,8412	4,1161
30	2,2566	2,4273	2,6104	2,8068	3,0175	3,2434	3,4856	3,7453	4,0237	4,3219
31	2,3187	2,5001	2,6952	2,9050	3,1306	3,3731	3,6338	3,9139	4,2148	4,5380
32	2,3824	2,5751	2,7828	3,0067	3,2480	3,5081	3,7882	4,0900	4,4150	4,7649
33	2,4479	2,6523	2,8732	3,1119	3,3698	3,6484	3,9492	4,2740	4,6247	5,0032
34	2,5153	2,7319	2,9666	3,2209	3,4962	3,7943	4,1171	4,4664	4,8444	5,2533
35	2,5844	2,8139	3,0630	3,3336	3,6273	3,9461	4,2920	4,6673	5,0745	5,5160
36	2,6555	2,8983	3,1626	3,4503	3,7633	4,1039	4,4744	4,8774	5,3155	5,7918
37	2,7285	2,9852	3,2654	3,5710	3,9045	4,2681	4,6646	5,0969	5,5680	6,0814
38	2,8036	3,0748	3,3715	3,6960	4,0509	4,4388	4,8628	5,3262	5,8325	6,3855
39	2,8807	3,1670	3,4811	3,8254	4,2028	4,6164	5,0695	5,5659	6,1095	6,7048
40	2,9599	3,2620	3,5942	3,9593	4,3604	4,8010	5,2850	5,8164	6,3997	7,0400
41	3,0413	3,3599	3,7110	4,0978	4,5239	4,9931	5,5096	6,0781	6,7037	7,3920
42	3,1249	3,4607	3,8316	4,2413	4,6935	5,1928	5,7437	6,3516	7,0221	7,7616
43	3,2108	3,5645	3,9561	4,3897	4,8695	5,4005	5,9878	6,6374	7,3557	8,1497
44	3,2991	3,6715	4,0847	4,5433	5,0522	5,6165	6,2423	6,9361	7,7051	8,5572
45	3,3899	3,7816	4,2175	4,7024	5,2416	5,8412	6,5076	7,2482	8,0711	8,9850
46	3,4831	3,8950	4,3545	4,8669	5,4382	6,0748	6,7842	7,5744	8,4545	9,4343
47	3,5789	4,0119	4,4961	5,0373	5,6421	6,3178	7,0725	7,9153	8,8560	9,9060
48	3,6773	4,1323	4,6422	5,2136	5,8537	6,5705	7,3731	8,2715	9,2767	10,4013
49	3,7784	4,2562	4,7931	5,3961	6,0732	6,8333	7,6865	8,6437	9,7173	10,9213
50	3,8823	4,3839	4,9488	5,5849	6,3009	7,1067	8,0131	9,0326	10,1789	11,4674

$(1 + x)^n$  n er antallet af perioder x er vækst i procent

$5,25\% \leq x \leq 7,50\%$

n\%	5,25%	5,50%	5,75%	6,00%	6,25%	6,50%	6,75%	7,00%	7,25%	7,50%
1	1,0525	1,0550	1,0575	1,0600	1,0625	1,0650	1,0675	1,0700	1,0725	1,0750
2	1,1078	1,1130	1,1183	1,1236	1,1289	1,1342	1,1396	1,1449	1,1503	1,1556
3	1,1659	1,1742	1,1826	1,1910	1,1995	1,2079	1,2165	1,2250	1,2336	1,2423
4	1,2271	1,2388	1,2506	1,2625	1,2744	1,2865	1,2986	1,3108	1,3231	1,3355
5	1,2915	1,3070	1,3225	1,3382	1,3541	1,3701	1,3862	1,4026	1,4190	1,4356
6	1,3594	1,3788	1,3986	1,4185	1,4387	1,4591	1,4798	1,5007	1,5219	1,5433
7	1,4307	1,4547	1,4790	1,5036	1,5286	1,5540	1,5797	1,6058	1,6322	1,6590
8	1,5058	1,5347	1,5640	1,5938	1,6242	1,6550	1,6863	1,7182	1,7506	1,7835
9	1,5849	1,6191	1,6540	1,6895	1,7257	1,7626	1,8002	1,8385	1,8775	1,9172
10	1,6681	1,7081	1,7491	1,7908	1,8335	1,8771	1,9217	1,9672	2,0136	2,0610
11	1,7557	1,8021	1,8496	1,8983	1,9481	1,9992	2,0514	2,1049	2,1596	2,2156
12	1,8478	1,9012	1,9560	2,0122	2,0699	2,1291	2,1899	2,2522	2,3162	2,3818
13	1,9449	2,0058	2,0684	2,1329	2,1993	2,2675	2,3377	2,4098	2,4841	2,5604
14	2,0470	2,1161	2,1874	2,2609	2,3367	2,4149	2,4955	2,5785	2,6642	2,7524
15	2,1544	2,2325	2,3132	2,3966	2,4828	2,5718	2,6639	2,7590	2,8573	2,9589
16	2,2675	2,3553	2,4462	2,5404	2,6379	2,7390	2,8437	2,9522	3,0645	3,1808
17	2,3866	2,4848	2,5868	2,6928	2,8028	2,9170	3,0357	3,1588	3,2867	3,4194
18	2,5119	2,6215	2,7356	2,8543	2,9780	3,1067	3,2406	3,3799	3,5249	3,6758
19	2,6437	2,7656	2,8929	3,0256	3,1641	3,3086	3,4593	3,6165	3,7805	3,9515
20	2,7825	2,9178	3,0592	3,2071	3,3619	3,5236	3,6928	3,8697	4,0546	4,2479
21	2,9286	3,0782	3,2351	3,3996	3,5720	3,7527	3,9421	4,1406	4,3485	4,5664
22	3,0824	3,2475	3,4211	3,6035	3,7952	3,9966	4,2082	4,4304	4,6638	4,9089
23	3,2442	3,4262	3,6178	3,8197	4,0324	4,2564	4,4922	4,7405	5,0019	5,2771
24	3,4145	3,6146	3,8259	4,0489	4,2844	4,5331	4,7954	5,0724	5,3646	5,6729
25	3,5938	3,8134	4,0458	4,2919	4,5522	4,8277	5,1191	5,4274	5,7535	6,0983
26	3,7825	4,0231	4,2785	4,5494	4,8367	5,1415	5,4647	5,8074	6,1706	6,5557
27	3,9810	4,2444	4,5245	4,8223	5,1390	5,4757	5,8335	6,2139	6,6180	7,0474
28	4,1900	4,4778	4,7847	5,1117	5,4602	5,8316	6,2273	6,6488	7,0978	7,5759
29	4,4100	4,7241	5,0598	5,4184	5,8015	6,2107	6,6477	7,1143	7,6124	8,1441
30	4,6416	4,9840	5,3507	5,7435	6,1641	6,6144	7,0964	7,6123	8,1643	8,7550
31	4,8852	5,2581	5,6584	6,0881	6,5493	7,0443	7,5754	8,1451	8,7562	9,4116
32	5,1417	5,5473	5,9837	6,4534	6,9587	7,5022	8,0867	8,7153	9,3910	10,1174
33	5,4116	5,8524	6,3278	6,8406	7,3936	7,9898	8,6326	9,3253	10,0719	10,8763
34	5,6958	6,1742	6,6916	7,2510	7,8557	8,5092	9,2153	9,9781	10,8021	11,6920
35	5,9948	6,5138	7,0764	7,6861	8,3467	9,0623	9,8373	10,6766	11,5853	12,5689
36	6,3095	6,8721	7,4833	8,1473	8,8683	9,6513	10,5013	11,4239	12,4252	13,5115
37	6,6408	7,2501	7,9136	8,6361	9,4226	10,2786	11,2102	12,2236	13,3260	14,5249
38	6,9894	7,6488	8,3686	9,1543	10,0115	10,9467	11,9668	13,0793	14,2921	15,6143
39	7,3563	8,0695	8,8498	9,7035	10,6372	11,6583	12,7746	13,9948	15,3283	16,7853
40	7,7426	8,5133	9,3587	10,2857	11,3021	12,4161	13,6369	14,9745	16,4396	18,0442
41	8,1490	8,9815	9,8968	10,9029	12,0084	13,2231	14,5574	16,0227	17,6315	19,3976
42	8,5769	9,4755	10,4659	11,5570	12,7590	14,0826	15,5400	17,1443	18,9098	20,8524
43	9,0271	9,9967	11,0677	12,2505	13,5564	14,9980	16,5890	18,3444	20,2807	22,4163
44	9,5011	10,5465	11,7041	12,9855	14,4037	15,9729	17,7087	19,6285	21,7511	24,0975
45	9,9999	11,1266	12,3770	13,7646	15,3039	17,0111	18,9040	21,0025	23,3281	25,9048
46	10,5249	11,7385	13,0887	14,5905	16,2604	18,1168	20,1801	22,4726	25,0193	27,8477
47	11,0774	12,3841	13,8413	15,4659	17,2767	19,2944	21,5422	24,0457	26,8332	29,9363
48	11,6590	13,0653	14,6372	16,3939	18,3565	20,5485	22,9963	25,7289	28,7787	32,1815
49	12,2711	13,7838	15,4788	17,3775	19,5037	21,8842	24,5486	27,5299	30,8651	34,5951
50	12,9153	14,5420	16,3689	18,4202	20,7227	23,3067	26,2056	29,4570	33,1028	37,1897

$(1 + x)^n$  n er antallet af perioder x er vækst i procent

$7,75\% \leq x \leq 10,00\%$

n\%	7,75%	8,00%	8,25%	8,50%	8,75%	9,00%	9,25%	9,50%	9,75%	10,00%
1	1,0775	1,0800	1,0825	1,0850	1,0875	1,0900	1,0925	1,0950	1,0975	1,1000
2	1,1610	1,1664	1,1718	1,1772	1,1827	1,1881	1,1936	1,1990	1,2045	1,2100
3	1,2510	1,2597	1,2685	1,2773	1,2861	1,2950	1,3040	1,3129	1,3219	1,3310
4	1,3479	1,3605	1,3731	1,3859	1,3987	1,4116	1,4246	1,4377	1,4508	1,4641
5	1,4524	1,4693	1,4864	1,5037	1,5211	1,5386	1,5563	1,5742	1,5923	1,6105
6	1,5650	1,5869	1,6090	1,6315	1,6542	1,6771	1,7003	1,7238	1,7475	1,7716
7	1,6862	1,7138	1,7418	1,7701	1,7989	1,8280	1,8576	1,8876	1,9179	1,9487
8	1,8169	1,8509	1,8855	1,9206	1,9563	1,9926	2,0294	2,0669	2,1049	2,1436
9	1,9577	1,9990	2,0410	2,0839	2,1275	2,1719	2,2171	2,2632	2,3102	2,3579
10	2,1095	2,1589	2,2094	2,2610	2,3136	2,3674	2,4222	2,4782	2,5354	2,5937
11	2,2730	2,3316	2,3917	2,4532	2,5161	2,5804	2,6463	2,7137	2,7826	2,8531
12	2,4491	2,5182	2,5890	2,6617	2,7362	2,8127	2,8911	2,9715	3,0539	3,1384
13	2,6389	2,7196	2,8026	2,8879	2,9756	3,0658	3,1585	3,2537	3,3517	3,4523
14	2,8434	2,9372	3,0338	3,1334	3,2360	3,3417	3,4506	3,5629	3,6784	3,7975
15	3,0638	3,1722	3,2841	3,3997	3,5192	3,6425	3,7698	3,9013	4,0371	4,1772
16	3,3012	3,4259	3,5551	3,6887	3,8271	3,9703	4,1185	4,2719	4,4307	4,5950
17	3,5571	3,7000	3,8483	4,0023	4,1620	4,3276	4,4995	4,6778	4,8627	5,0545
18	3,8328	3,9960	4,1658	4,3425	4,5261	4,7171	4,9157	5,1222	5,3368	5,5599
19	4,1298	4,3157	4,5095	4,7116	4,9222	5,1417	5,3704	5,6088	5,8571	6,1159
20	4,4499	4,6610	4,8816	5,1120	5,3529	5,6044	5,8672	6,1416	6,4282	6,7275
21	4,7947	5,0338	5,2843	5,5466	5,8212	6,1088	6,4099	6,7251	7,0550	7,4002
22	5,1663	5,4365	5,7202	6,0180	6,3306	6,6586	7,0028	7,3639	7,7428	8,1403
23	5,5667	5,8715	6,1922	6,5296	6,8845	7,2579	7,6506	8,0635	8,4978	8,9543
24	5,9981	6,3412	6,7030	7,0846	7,4869	7,9111	8,3582	8,8296	9,3263	9,8497
25	6,4630	6,8485	7,2560	7,6868	8,1420	8,6231	9,1314	9,6684	10,2356	10,8347
26	6,9638	7,3964	7,8546	8,3401	8,8544	9,3992	9,9760	10,5869	11,2336	11,9182
27	7,5035	7,9881	8,5026	9,0490	9,6292	10,2451	10,8988	11,5926	12,3288	13,1100
28	8,0851	8,6271	9,2041	9,8182	10,4718	11,1671	11,9069	12,6939	13,5309	14,4210
29	8,7117	9,3173	9,9634	10,6528	11,3880	12,1722	13,0083	13,8998	14,8502	15,8631
30	9,3868	10,0627	10,7854	11,5583	12,3845	13,2677	14,2116	15,2203	16,2981	17,4494
31	10,1143	10,8677	11,6752	12,5407	13,4681	14,4618	15,5262	16,6662	17,8871	19,1943
32	10,8982	11,7371	12,6384	13,6067	14,6466	15,7633	16,9624	18,2495	19,6311	21,1138
33	11,7428	12,6760	13,6811	14,7632	15,9282	17,1820	18,5314	19,9832	21,5451	23,2252
34	12,6528	13,6901	14,8098	16,0181	17,3219	18,7284	20,2455	21,8816	23,6458	25,5477
35	13,6334	14,7853	16,0316	17,3796	18,8375	20,4140	22,1182	23,9604	25,9513	28,1024
36	14,6900	15,9682	17,3542	18,8569	20,4858	22,2512	24,1642	26,2366	28,4815	30,9127
37	15,8285	17,2456	18,7859	20,4597	22,2783	24,2538	26,3994	28,7291	31,2585	34,0039
38	17,0552	18,6253	20,3358	22,1988	24,2277	26,4367	28,8413	31,4584	34,3062	37,4043
39	18,3770	20,1153	22,0135	24,0857	26,3476	28,8160	31,5091	34,4469	37,6510	41,1448
40	19,8012	21,7245	23,8296	26,1330	28,6530	31,4094	34,4237	37,7194	41,3220	45,2593
41	21,3358	23,4625	25,7955	28,3543	31,1602	34,2363	37,6079	41,3027	45,3509	49,7852
42	22,9893	25,3395	27,9236	30,7644	33,8867	37,3175	41,0866	45,2265	49,7726	54,7637
43	24,7710	27,3666	30,2273	33,3794	36,8518	40,6761	44,8872	49,5230	54,6254	60,2401
44	26,6907	29,5560	32,7211	36,2167	40,0763	44,3370	49,0392	54,2277	59,9514	66,2641
45	28,7592	31,9204	35,4206	39,2951	43,5830	48,3273	53,5754	59,3793	65,7967	72,8905
46	30,9881	34,4741	38,3428	42,6352	47,3965	52,6767	58,5311	65,0204	72,2118	80,1795
47	33,3897	37,2320	41,5061	46,2592	51,5437	57,4176	63,9452	71,1973	79,2525	88,1975
48	35,9774	40,2106	44,9303	50,1912	56,0538	62,5852	69,8601	77,9611	86,9796	97,0172
49	38,7656	43,4274	48,6371	54,4574	60,9585	68,2179	76,3222	85,3674	95,4601	106,7190
50	41,7699	46,9016	52,6496	59,0863	66,2923	74,3575	83,3820	93,4773	104,7675	117,3909

$(1 + x)^n$  n er antallet af perioder x er vækst i procent

$10,5\% \leq x \leq 15,0\%$

n\%	10,50%	11,00%	11,50%	12,00%	12,50%	13,00%	13,50%	14,00%	14,50%	15,00%
1	1,1050	1,1100	1,1150	1,1200	1,1250	1,1300	1,1350	1,1400	1,1450	1,1500
2	1,2210	1,2321	1,2432	1,2544	1,2656	1,2769	1,2882	1,2996	1,3110	1,3225
3	1,3492	1,3676	1,3862	1,4049	1,4238	1,4429	1,4621	1,4815	1,5011	1,5209
4	1,4909	1,5181	1,5456	1,5735	1,6018	1,6305	1,6595	1,6890	1,7188	1,7490
5	1,6474	1,6851	1,7234	1,7623	1,8020	1,8424	1,8836	1,9254	1,9680	2,0114
6	1,8204	1,8704	1,9215	1,9738	2,0273	2,0820	2,1378	2,1950	2,2534	2,3131
7	2,0116	2,0762	2,1425	2,2107	2,2807	2,3526	2,4264	2,5023	2,5801	2,6600
8	2,2228	2,3045	2,3889	2,4760	2,5658	2,6584	2,7540	2,8526	2,9542	3,0590
9	2,4562	2,5580	2,6636	2,7731	2,8865	3,0040	3,1258	3,2519	3,3826	3,5179
10	2,7141	2,8394	2,9699	3,1058	3,2473	3,3946	3,5478	3,7072	3,8731	4,0456
11	2,9991	3,1518	3,3115	3,4785	3,6532	3,8359	4,0267	4,2262	4,4347	4,6524
12	3,3140	3,4985	3,6923	3,8960	4,1099	4,3345	4,5704	4,8179	5,0777	5,3503
13	3,6619	3,8833	4,1169	4,3635	4,6236	4,8980	5,1874	5,4924	5,8140	6,1528
14	4,0464	4,3104	4,5904	4,8871	5,2016	5,5348	5,8877	6,2613	6,6570	7,0757
15	4,4713	4,7846	5,1183	5,4736	5,8518	6,2543	6,6825	7,1379	7,6222	8,1371
16	4,9408	5,3109	5,7069	6,1304	6,5833	7,0673	7,5846	8,1372	8,7275	9,3576
17	5,4596	5,8951	6,3632	6,8660	7,4062	7,9861	8,6085	9,2765	9,9929	10,7613
18	6,0328	6,5436	7,0949	7,6900	8,3319	9,0243	9,7707	10,5752	11,4419	12,3755
19	6,6663	7,2633	7,9108	8,6128	9,3734	10,1974	11,0897	12,0557	13,1010	14,2318
20	7,3662	8,0623	8,8206	9,6463	10,5451	11,5231	12,5869	13,7435	15,0006	16,3665
21	8,1397	8,9492	9,8350	10,8038	11,8632	13,0211	14,2861	15,6676	17,1757	18,8215
22	8,9944	9,9336	10,9660	12,1003	13,3461	14,7138	16,2147	17,8610	19,6662	21,6447
23	9,9388	11,0263	12,2271	13,5523	15,0144	16,6266	18,4037	20,3616	22,5178	24,8915
24	10,9823	12,2392	13,6332	15,1786	16,8912	18,7881	20,8882	23,2122	25,7829	28,6252
25	12,1355	13,5855	15,2010	17,0001	19,0026	21,2305	23,7081	26,4619	29,5214	32,9190
26	13,4097	15,0799	16,9491	19,0401	21,3779	23,9905	26,9087	30,1666	33,8020	37,8568
27	14,8177	16,7386	18,8982	21,3249	24,0502	27,1093	30,5414	34,3899	38,7033	43,5353
28	16,3736	18,5799	21,0715	23,8839	27,0564	30,6335	34,6644	39,2045	44,3153	50,0656
29	18,0928	20,6237	23,4948	26,7499	30,4385	34,6158	39,3441	44,6931	50,7410	57,5755
30	19,9926	22,8923	26,1967	29,9599	34,2433	39,1159	44,6556	50,9502	58,0985	66,2118
31	22,0918	25,4104	29,2093	33,5551	38,5237	44,2010	50,6841	58,0832	66,5227	76,1435
32	24,4114	28,2056	32,5683	37,5817	43,3392	49,9471	57,5264	66,2148	76,1685	87,5651
33	26,9746	31,3082	36,3137	42,0915	48,7566	56,4402	65,2925	75,4849	87,2130	100,6998
34	29,8069	34,7521	40,4898	47,1425	54,8512	63,7774	74,1070	86,0528	99,8588	115,8048
35	32,9367	38,5749	45,1461	52,7996	61,7075	72,0685	84,1115	98,1002	114,3384	133,1755
36	36,3950	42,8181	50,3379	59,1356	69,4210	81,4374	95,4665	111,8342	130,9174	153,1519
37	40,2165	47,5281	56,1268	66,2318	78,0986	92,0243	108,3545	127,4910	149,9005	176,1246
38	44,4392	52,7562	62,5814	74,1797	87,8609	103,9874	122,9823	145,3397	171,6360	202,5433
39	49,1054	58,5593	69,7782	83,0812	98,8436	117,5058	139,5850	165,6873	196,5233	232,9248
40	54,2614	65,0009	77,8027	93,0510	111,1990	132,7816	158,4289	188,8835	225,0191	267,8635
41	59,9589	72,1510	86,7500	104,2171	125,0989	150,0432	179,8168	215,3272	257,6469	308,0431
42	66,2545	80,0876	96,7263	116,7231	140,7362	169,5488	204,0921	245,4730	295,0057	354,2495
43	73,2113	88,8972	107,8498	130,7299	158,3283	191,5901	231,6445	279,8392	337,7816	407,3870
44	80,8985	98,6759	120,2525	146,4175	178,1193	216,4968	262,9165	319,0167	386,7599	468,4950
45	89,3928	109,5302	134,0816	163,9876	200,3842	244,6414	298,4103	363,6791	442,8401	538,7693
46	98,7790	121,5786	149,5009	183,6661	225,4322	276,4448	338,6957	414,5941	507,0519	619,5847
47	109,1508	134,9522	166,6935	205,7061	253,6113	312,3826	384,4196	472,6373	580,5744	712,5224
48	120,6117	149,7970	185,8633	230,3908	285,3127	352,9923	436,3162	538,8065	664,7577	819,4007
49	133,2759	166,2746	207,2376	258,0377	320,9768	398,8813	495,2189	614,2395	761,1475	942,3108
50	147,2699	184,5648	231,0699	289,0022	361,0989	450,7359	562,0735	700,2330	871,5139	1083,6574

$(1 + x)^n$  n er antallet af perioder x er vækst i procent

$15,5\% \leq x \leq 20,0\%$

n\ x	15,50%	16,00%	16,50%	17,00%	17,50%	18,00%	18,50%	19,00%	19,50%	20,00%
1	1,1550	1,1600	1,1650	1,1700	1,1750	1,1800	1,1850	1,1900	1,1950	1,2000
2	1,3340	1,3456	1,3572	1,3689	1,3806	1,3924	1,4042	1,4161	1,4280	1,4400
3	1,5408	1,5609	1,5812	1,6016	1,6222	1,6430	1,6640	1,6852	1,7065	1,7280
4	1,7796	1,8106	1,8421	1,8739	1,9061	1,9388	1,9718	2,0053	2,0393	2,0736
5	2,0555	2,1003	2,1460	2,1924	2,2397	2,2878	2,3366	2,3864	2,4369	2,4883
6	2,3741	2,4364	2,5001	2,5652	2,6316	2,6996	2,7689	2,8398	2,9121	2,9860
7	2,7420	2,8262	2,9126	3,0012	3,0922	3,1855	3,2812	3,3793	3,4800	3,5832
8	3,1671	3,2784	3,3932	3,5115	3,6333	3,7589	3,8882	4,0214	4,1586	4,2998
9	3,6580	3,8030	3,9531	4,1084	4,2691	4,4355	4,6075	4,7854	4,9695	5,1598
10	4,2249	4,4114	4,6053	4,8068	5,0162	5,2338	5,4599	5,6947	5,9385	6,1917
11	4,8798	5,1173	5,3652	5,6240	5,8941	6,1759	6,4700	6,7767	7,0965	7,4301
12	5,6362	5,9360	6,2504	6,5801	6,9256	7,2876	7,6669	8,0642	8,4804	8,9161
13	6,5098	6,8858	7,2818	7,6987	8,1375	8,5994	9,0853	9,5964	10,1340	10,6993
14	7,5188	7,9875	8,4833	9,0075	9,5616	10,1472	10,7661	11,4198	12,1102	12,8392
15	8,6842	9,2655	9,8830	10,5387	11,2349	11,9737	12,7578	13,5895	14,4717	15,4070
16	10,0302	10,7480	11,5137	12,3303	13,2010	14,1290	15,1180	16,1715	17,2936	18,4884
17	11,5849	12,4677	13,4135	14,4265	15,5111	16,6722	17,9148	19,2441	20,6659	22,1861
18	13,3806	14,4625	15,6267	16,8790	18,2256	19,6733	21,2290	22,9005	24,6958	26,6233
19	15,4546	16,7765	18,2051	19,7484	21,4151	23,2144	25,1564	27,2516	29,5114	31,9480
20	17,8501	19,4608	21,2089	23,1056	25,1627	27,3930	29,8103	32,4294	35,2662	38,3376
21	20,6168	22,5745	24,7084	27,0336	29,5662	32,3238	35,3253	38,5910	42,1431	46,0051
22	23,8124	26,1864	28,7853	31,6293	34,7403	38,1421	41,8604	45,9233	50,3610	55,2061
23	27,5034	30,3762	33,5348	37,0062	40,8198	45,0076	49,6046	54,6487	60,1813	66,2474
24	31,7664	35,2364	39,0681	43,2973	47,9633	53,1090	58,7815	65,0320	71,9167	79,4968
25	36,6902	40,8742	45,5143	50,6578	56,3568	62,6686	69,6560	77,3881	85,9405	95,3962
26	42,3771	47,4141	53,0242	59,2697	66,2193	73,9490	82,5424	92,0918	102,6988	114,4755
27	48,9456	55,0004	61,7732	69,3455	77,8077	87,2598	97,8127	109,5893	122,7251	137,3706
28	56,5322	63,8004	71,9658	81,1342	91,4240	102,9666	115,9081	130,4112	146,6565	164,8447
29	65,2946	74,0085	83,8401	94,9271	107,4232	121,5005	137,3511	155,1893	175,2545	197,8136
30	75,4153	85,8499	97,6737	111,0647	126,2223	143,3706	162,7611	184,6753	209,4292	237,3763
31	87,1047	99,5859	113,7899	129,9456	148,3112	169,1774	192,8719	219,7636	250,2679	284,8516
32	100,6059	115,5196	132,5652	152,0364	174,2656	199,6293	228,5531	261,5187	299,0701	341,8219
33	116,1998	134,0027	154,4385	177,8826	204,7621	235,5625	270,8355	311,2073	357,3887	410,1863
34	134,2108	155,4432	179,9208	208,1226	240,5955	277,9638	320,9400	370,3366	427,0796	492,2235
35	155,0135	180,3141	209,6078	243,5035	282,6997	327,9973	380,3140	440,7006	510,3601	590,6682
36	179,0406	209,1643	244,1931	284,8991	332,1721	387,0368	450,6720	524,4337	609,8803	708,8019
37	206,7918	242,6306	284,4849	333,3319	390,3023	456,7034	534,0464	624,0761	728,8069	850,5622
38	238,8446	281,4515	331,4249	389,9983	458,6052	538,9100	632,8449	742,6506	870,9243	1020,6747
39	275,8655	326,4838	386,1100	456,2980	538,8611	635,9139	749,9213	883,7542	1040,7545	1224,8096
40	318,6246	378,7212	449,8182	533,8687	633,1617	750,3783	888,6567	1051,6675	1243,7017	1469,7716
41	368,0115	439,3165	524,0382	624,6264	743,9650	885,4464	1053,0582	1251,4843	1486,2235	1763,7259
42	425,0532	509,6072	610,5045	730,8129	874,1589	1044,8268	1247,8739	1489,2664	1776,0371	2116,4711
43	490,9365	591,1443	711,2377	855,0511	1027,1367	1232,8956	1478,7306	1772,2270	2122,3643	2539,7653
44	567,0317	685,7274	828,5920	1000,4098	1206,8857	1454,8168	1752,2958	2108,9501	2536,2253	3047,7183
45	654,9216	795,4438	965,3096	1170,4794	1418,0907	1716,6839	2076,4705	2509,6506	3030,7892	3657,2620
46	756,4344	922,7148	1124,5857	1369,4609	1666,2565	2025,6870	2460,6175	2986,4842	3621,7932	4388,7144
47	873,6817	1070,3492	1310,1424	1602,2693	1957,8514	2390,3106	2915,8318	3553,9162	4328,0428	5266,4573
48	1009,1024	1241,6051	1526,3159	1874,6550	2300,4754	2820,5665	3455,2607	4229,1603	5172,0112	6319,7487
49	1165,5133	1440,2619	1778,1580	2193,3464	2703,0586	3328,2685	4094,4839	5032,7008	6180,5533	7583,6985
50	1346,1678	1670,7038	2071,5540	2566,2153	3176,0939	3927,3569	4851,9634	5988,9139	7385,7612	9100,4382

$(1 + x)^n$  n er antallet af perioder x er vækst i procent

21 <= x <= 30

n\%	21%	22%	23%	24%	25%	26%	27%	28%	29%	30%
1	1,2100	1,2200	1,2300	1,2400	1,2500	1,2600	1,2700	1,2800	1,2900	1,3000
2	1,4641	1,4884	1,5129	1,5376	1,5625	1,5876	1,6129	1,6384	1,6641	1,6900
3	1,7716	1,8158	1,8609	1,9066	1,9531	2,0004	2,0484	2,0972	2,1467	2,1970
4	2,1436	2,2153	2,2889	2,3642	2,4414	2,5205	2,6014	2,6844	2,7692	2,8561
5	2,5937	2,7027	2,8153	2,9316	3,0518	3,1758	3,3038	3,4360	3,5723	3,7129
6	3,1384	3,2973	3,4628	3,6352	3,8147	4,0015	4,1959	4,3980	4,6083	4,8268
7	3,7975	4,0227	4,2593	4,5077	4,7684	5,0419	5,3288	5,6295	5,9447	6,2749
8	4,5950	4,9077	5,2389	5,5895	5,9605	6,3528	6,7675	7,2058	7,6686	8,1573
9	5,5599	5,9874	6,4439	6,9310	7,4506	8,0045	8,5948	9,2234	9,8925	10,6045
10	6,7275	7,3046	7,9259	8,5944	9,3132	10,0857	10,9153	11,8059	12,7614	13,7858
11	8,1403	8,9117	9,7489	10,6571	11,6415	12,7080	13,8625	15,1116	16,4622	17,9216
12	9,8497	10,8722	11,9912	13,2148	14,5519	16,0120	17,6053	19,3428	21,2362	23,2981
13	11,9182	13,2641	14,7491	16,3863	18,1899	20,1752	22,3588	24,7588	27,3947	30,2875
14	14,4210	16,1822	18,1414	20,3191	22,7374	25,4207	28,3957	31,6913	35,3391	39,3738
15	17,4494	19,7423	22,3140	25,1956	28,4217	32,0301	36,0625	40,5648	45,5875	51,1859
16	21,1138	24,0856	27,4462	31,2426	35,5271	40,3579	45,7994	51,9230	58,8079	66,5417
17	25,5477	29,3844	33,7588	38,7408	44,4089	50,8510	58,1652	66,4614	75,8621	86,5042
18	30,9127	35,8490	41,5233	48,0386	55,5112	64,0722	73,8698	85,0706	97,8622	112,4554
19	37,4043	43,7358	51,0737	59,5679	69,3889	80,7310	93,8147	108,8904	126,2422	146,1920
20	45,2593	53,3576	62,8206	73,8641	86,7362	101,7211	119,1446	139,3797	162,8524	190,0496
21	54,7637	65,0963	77,2694	91,5915	108,4202	128,1685	151,3137	178,4060	210,0796	247,0645
22	66,2641	79,4175	95,0413	113,5735	135,5253	161,4924	192,1683	228,3596	271,0027	321,1839
23	80,1795	96,8894	116,9008	140,8312	169,4066	203,4804	244,0538	292,3003	349,5935	417,5391
24	97,0172	118,2050	143,7880	174,6306	211,7582	256,3853	309,9483	374,1444	450,9756	542,8008
25	117,3909	144,2101	176,8593	216,5420	264,6978	323,0454	393,6344	478,9049	581,7585	705,6410
26	142,0429	175,9364	217,5369	268,5121	330,8722	407,0373	499,9157	612,9982	750,4685	917,3333
27	171,8719	214,6424	267,5704	332,9550	413,5903	512,8670	634,8929	784,6377	968,1044	1192,5333
28	207,9651	261,8637	329,1115	412,8642	516,9879	646,2124	806,3140	1004,3363	1248,8546	1550,2933
29	251,6377	319,4737	404,8072	511,9516	646,2349	814,2276	1024,0187	1285,5504	1611,0225	2015,3813
30	304,4816	389,7579	497,9129	634,8199	807,7936	1025,9267	1300,5038	1645,5046	2078,2190	2619,9956
31	368,4228	475,5046	612,4328	787,1767	1009,7420	1292,6677	1651,6398	2106,2458	2680,9025	3405,9943
32	445,7916	580,1156	753,2924	976,0991	1262,1774	1628,7613	2097,5826	2695,9947	3458,3642	4427,7926
33	539,4078	707,7411	926,5496	1210,3629	1577,7218	2052,2392	2663,9299	3450,8732	4461,2898	5756,1304
34	652,6834	863,4441	1139,6560	1500,8500	1972,1523	2585,8215	3383,1910	4417,1177	5755,0639	7482,9696
35	789,7470	1053,4018	1401,7769	1861,0540	2465,1903	3258,1350	4296,6525	5653,9106	7424,0324	9727,8604
36	955,5938	1285,1502	1724,1856	2307,7070	3081,4879	4105,2501	5456,7487	7237,0056	9577,0018	12646,2186
37	1156,2685	1567,8833	2120,7483	2861,5567	3851,8599	5172,6152	6930,0709	9263,3671	12354,3324	16440,0841
38	1399,0849	1912,8176	2608,5204	3548,3303	4814,8249	6517,4951	8801,1900	11857,1099	15937,0888	21372,1094
39	1692,8927	2333,6375	3208,4801	4399,9295	6018,5311	8212,0438	11177,5113	15177,1007	20558,8445	27783,7422
40	2048,4002	2847,0378	3946,4305	5455,9126	7523,1638	10347,1752	14195,4393	19426,6889	26520,9094	36118,8648
41	2478,5643	3473,3861	4854,1095	6765,3317	9403,9548	13037,4408	18028,2080	24866,1618	34211,9731	46954,5243
42	2999,0628	4237,5310	5970,5547	8389,0113	11754,9435	16427,1754	22895,8241	31828,6871	44133,4453	61040,8815
43	3628,8659	5169,7878	7343,7823	10402,3740	14693,6794	20698,2410	29077,6966	40740,7195	56932,1445	79353,1460
44	4390,9278	6307,1411	9032,8522	12898,9437	18367,0992	26079,7837	36928,6747	52148,1210	73442,4664	103159,090
45	5313,0226	7694,7122	11110,4082	15994,6902	22958,8740	32860,5275	46899,4169	66749,5949	94740,7816	134106,817
46	6428,7574	9387,5489	13665,8021	19833,4158	28698,5925	41404,2646	59562,2594	85439,4814	122215,608	174338,862
47	7778,7964	11452,8096	16808,9365	24593,4356	35873,2407	52169,3734	75644,0695	109362,536	157658,135	226640,520
48	9412,3437	13972,4277	20674,9919	30495,8602	44841,5509	65733,4105	96067,9683	139984,046	203378,994	294632,676
49	11388,9358	17046,3618	25430,2401	37814,8666	56051,9386	82824,0972	122006,320	179179,579	262358,902	383022,479
50	13780,6123	20796,5615	31279,1953	46890,4346	70064,9232	104358,362	154948,026	229349,862	338442,984	497929,223

$(1 + x)^n$  n er antallet af perioder x er vækst i procent

$31\% \leq x \leq 50\%$

n\%	31%	32%	33%	34%	35%	40%	45%	50%
1	1,3100	1,3200	1,3300	1,3400	1,3500	1,4000	1,4500	1,5000
2	1,7161	1,7424	1,7689	1,7956	1,8225	1,9600	2,1025	2,2500
3	2,2481	2,3000	2,3526	2,4061	2,4604	2,7440	3,0486	3,3750
4	2,9450	3,0360	3,1290	3,2242	3,3215	3,8416	4,4205	5,0625
5	3,8579	4,0075	4,1616	4,3204	4,4840	5,3782	6,4097	7,5938
6	5,0539	5,2899	5,5349	5,7893	6,0534	7,5295	9,2941	11,3906
7	6,6206	6,9826	7,3614	7,7577	8,1722	10,5414	13,4765	17,0859
8	8,6730	9,2170	9,7907	10,3953	11,0324	14,7579	19,5409	25,6289
9	11,3617	12,1665	13,0216	13,9297	14,8937	20,6610	28,3343	38,4434
10	14,8838	16,0598	17,3187	18,6659	20,1066	28,9255	41,0847	57,6650
11	19,4977	21,1989	23,0339	25,0123	27,1439	40,4957	59,5728	86,4976
12	25,5420	27,9825	30,6351	33,5164	36,6442	56,6939	86,3806	129,7463
13	33,4601	36,9370	40,7447	44,9120	49,4697	79,3715	125,2518	194,6195
14	43,8327	48,7568	54,1905	60,1821	66,7841	111,1201	181,6151	291,9293
15	57,4208	64,3590	72,0733	80,6440	90,1585	155,5681	263,3419	437,8939
16	75,2213	84,9538	95,8575	108,0629	121,7139	217,7953	381,8458	656,8408
17	98,5399	112,1390	127,4905	144,8043	164,3138	304,9135	553,6764	985,2613
18	129,0872	148,0235	169,5624	194,0378	221,8236	426,8789	802,8308	1477,8919
19	169,1043	195,3911	225,5180	260,0107	299,4619	597,6304	1164,1047	2216,8378
20	221,5266	257,9162	299,9389	348,4143	404,2736	836,6826	1687,9518	3325,2567
21	290,1999	340,4494	398,9188	466,8752	545,7693	1171,3556	2447,5301	4987,8851
22	380,1618	449,3932	530,5620	625,6127	736,7886	1639,8978	3548,9187	7481,8276
23	498,0120	593,1990	705,6474	838,3210	994,6646	2295,8569	5145,9321	11222,7415
24	652,3957	783,0227	938,5110	1123,3502	1342,7973	3214,1997	7461,6015	16834,1122
25	854,6384	1033,5900	1248,2197	1505,2892	1812,7763	4499,8796	10819,3222	25251,1683
26	1119,5763	1364,3387	1660,1322	2017,0876	2447,2480	6299,8314	15688,0172	37876,7524
27	1466,6449	1800,9271	2207,9758	2702,8974	3303,7848	8819,7640	22747,6250	56815,1287
28	1921,3048	2377,2238	2936,6078	3621,8825	4460,1095	12347,6696	32984,0563	85222,6930
29	2516,9093	3137,9354	3905,6884	4853,3225	6021,1478	17286,7374	47826,8816	127834,039
30	3297,1512	4142,0748	5194,5655	6503,4522	8128,5495	24201,4324	69348,9783	191751,059
31	4319,2681	5467,5387	6908,7722	8714,6259	10973,5418	33882,0053	100556,019	287626,589
32	5658,2413	7217,1511	9188,6670	11677,5987	14814,2815	47434,8074	145806,227	431439,883
33	7412,2960	9526,6395	12220,9271	15647,9823	19999,2800	66408,7304	211419,029	647159,825
34	9710,1078	12575,1641	16253,8330	20968,2963	26999,0280	92972,2225	306557,592	970739,737
35	12720,2412	16599,2166	21617,5979	28097,5170	36448,6878	130161,112	444508,508	1456109,61
36	16663,5160	21910,9659	28751,4052	37650,6728	49205,7285	182225,556	644537,337	2184164,41
37	21829,2060	28922,4750	38239,3689	50451,9015	66427,7334	255115,779	934579,139	3276246,61
38	28596,2599	38177,6670	50858,3606	67605,5481	89677,4402	357162,090	1355139,75	4914369,92
39	37461,1004	50394,5205	67641,6196	90591,4344	121064,544	500026,926	1964952,64	7371554,88
40	49074,0415	66520,7670	89963,3541	121392,522	163437,135	700037,697	2849181,33	11057332,3
41	64286,9944	87807,4125	119651,261	162665,980	220640,132	980052,775	4131312,92	16585998,5
42	84215,9627	115905,784	159136,177	217972,413	297864,178	1372073,89	5990403,74	24878997,7
43	110322,911	152995,635	211651,115	292083,033	402116,640	1920903,44	8686085,42	37318496,6
44	144523,014	201954,239	281495,984	391391,264	542857,464	2689264,82	12594823,9	55977744,9
45	189325,148	266579,595	374389,658	524464,294	732857,577	3764970,74	18262494,6	83966617,3
46	248015,944	351885,066	497938,245	702782,154	989357,729	5270959,04	26480617,2	125949926
47	324900,886	464488,287	662257,866	941728,086	1335632,93	7379342,65	38396894,9	188924889
48	425620,161	613124,539	880802,962	1261915,64	1803104,46	10331079,7	55675497,6	283387333
49	557562,411	809324,391	1171467,94	1690966,95	2434191,02	14463511,6	80729471,5	425081000
50	730406,758	1068308,20	1558052,36	2265895,72	3286157,88	20248916,2	117057734	637621500