

Oppgavebok

Kapittel 1 God start s. 5

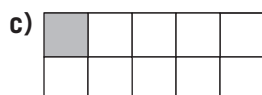
1

- a) $\frac{4}{5}$ b) $\frac{2}{3}$ c) $\frac{5}{6}$

2

- a) $\frac{4}{8} = \frac{1}{2}$ b) $\frac{3}{9} = \frac{1}{3}$ c) $\frac{2}{6} = \frac{1}{3}$

3



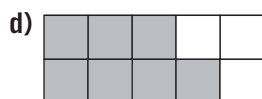
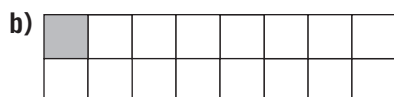
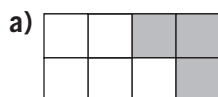
4

a) Hvor mange deler pizzaen har.

b) Hvor mange deler Mia spiser.

c) $\frac{16}{18} = \frac{8}{9}$

5



6

a) I fem like deler.

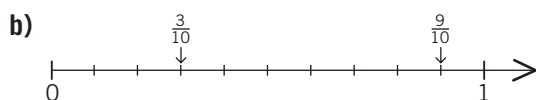
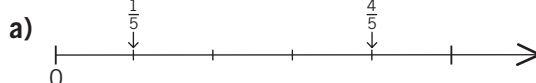
b) I seks like deler.

c) I ni like deler.

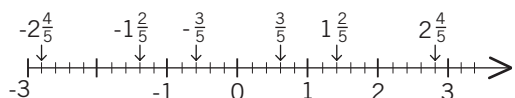
d) I ti like deler.

e) I tjue like deler.

7



8



9

A: $\frac{1}{4}$ B: $\frac{3}{4}$ C: $1\frac{2}{4} = 1\frac{1}{2}$

10

A: $\frac{2}{5}$ B: $\frac{4}{5}$ C: $1\frac{1}{5}$

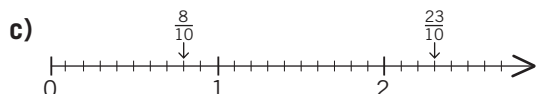
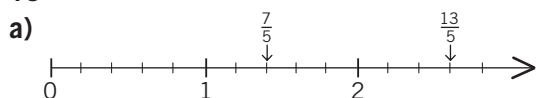
11

A: 0,4 B: 0,8 C: 1,2

12

A: $\frac{2}{6} = \frac{1}{3}$ B: $\frac{4}{6} = \frac{2}{3}$ C: $\frac{5}{6}$

13



Oppgavebok

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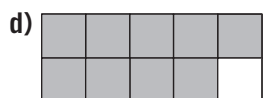
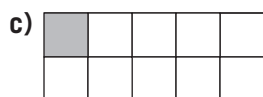
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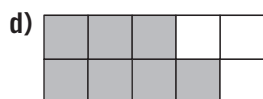
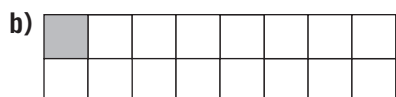
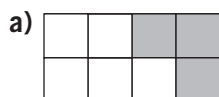
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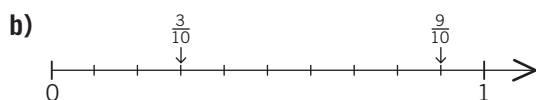
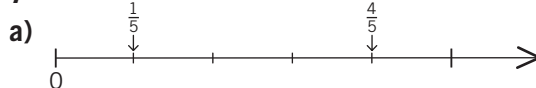
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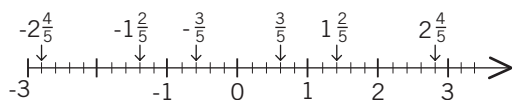
d) I ti like deler.

e) I tjue like deler.

7



8



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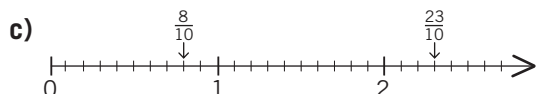
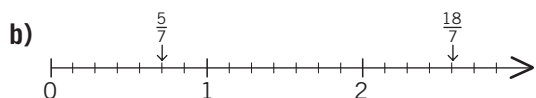
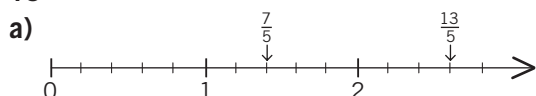
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A: $\frac{2}{6} = \frac{1}{3}$ B: $\frac{4}{6} = \frac{2}{3}$ C: $\frac{5}{6}$

13



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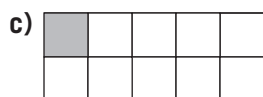
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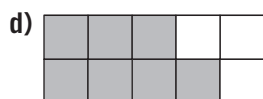
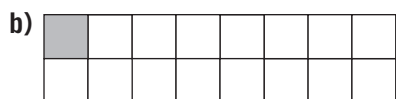
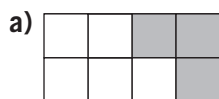
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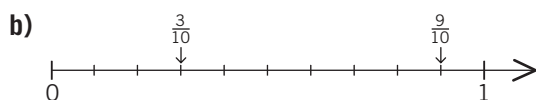
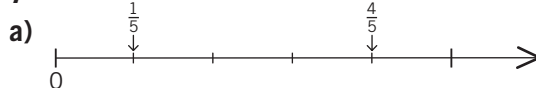
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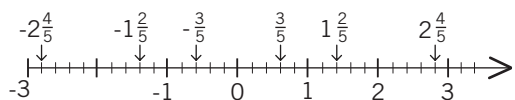
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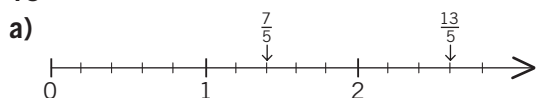
11

A: 0,4 B: 0,8 C: 1,2

12

A: $\frac{2}{6} = \frac{1}{3}$ B: $\frac{4}{6} = \frac{2}{3}$ C: $\frac{5}{6}$

13



14

a) $-2\frac{1}{4}, -\frac{7}{4}, -1\frac{1}{4}, -\frac{3}{4}, \frac{1}{4}, \frac{10}{4}$

b) $-\frac{8}{10}, -\frac{1}{10}, \frac{7}{10}, 1\frac{1}{10}, \frac{13}{10}, \frac{26}{10}$

15

De utgjør like store deler av et hele.

16

For eksempel:

a) $\frac{1}{3} = \frac{5}{15}$ c) $\frac{1}{5} = \frac{2}{10}$ e) $\frac{3}{4} = \frac{6}{8}$

b) $\frac{1}{4} = \frac{3}{12}$ d) $\frac{2}{3} = \frac{8}{12}$ f) $\frac{2}{5} = \frac{6}{15}$

17

a) $\frac{1}{3} = \frac{2}{6}$ c) $\frac{2}{3} = \frac{4}{6}$ e) $\frac{3}{2} = \frac{9}{6}$

b) $\frac{1}{2} = \frac{3}{6}$ d) $\frac{4}{3} = \frac{8}{6}$ f) $\frac{5}{12} = \frac{15}{6}$

18

a) $\frac{1}{4} = \frac{4}{16}$ c) $\frac{2}{8} = \frac{4}{16}$ e) $\frac{3}{2} = \frac{24}{16}$

b) $\frac{1}{2} = \frac{8}{16}$ d) $\frac{3}{8} = \frac{6}{16}$ f) $\frac{3}{4} = \frac{12}{16}$

19

a) $\frac{1}{3} = \frac{5}{15}$ c) $\frac{2}{3} = \frac{10}{15}$ e) $\frac{7}{5} = \frac{21}{15}$

b) $\frac{1}{5} = \frac{3}{15}$ d) $\frac{1}{5} = \frac{12}{15}$ f) $\frac{8}{3} = \frac{40}{15}$

20

a) $\frac{5}{3} = 1\frac{2}{3}$ b) $\frac{7}{6} = 1\frac{1}{6}$ c) $\frac{9}{4} = 2\frac{1}{4}$ d) $\frac{7}{8}$

21

a) $\frac{5}{5} = 1$

b) $\frac{7}{10}$

c) $\frac{15}{10} = \frac{3}{2} = 1\frac{1}{2}$

d) $\frac{20}{10} = 2$

22

a) $\frac{25}{20} = \frac{5}{4} = 1\frac{1}{4}$

b) $\frac{17}{20}$

c) $\frac{8}{12} = \frac{2}{3}$

d) $\frac{28}{12} = \frac{7}{3} = 2\frac{1}{3}$

23

a) $\frac{9}{14}$

b) $\frac{3}{14}$

c) $\frac{1}{15}$

d) 0

24

a) $\frac{9}{6} = \frac{3}{2} = 1\frac{1}{2}$

c) $\frac{1}{12}$

b) $\frac{7}{4} = 1\frac{3}{4}$

d) $\frac{2}{15}$

25

a) $\frac{5}{6}$

c) $\frac{11}{10} = 1\frac{1}{10}$

e) $\frac{15}{8} = 1\frac{7}{8}$

b) $\frac{7}{6} = 1\frac{1}{6}$

d) $\frac{9}{10}$

f) $2\frac{1}{10} = \frac{21}{10} = 2\frac{1}{10}$

26

For eksempel:

a) Det spises $\frac{1}{12}$ av en pizza. Av en annen maken pizza er det også spist $\frac{1}{12}$. Hvor mye pizza er det til sammen igjen?b) Mia har to hele pizzaer. Jon og Kaja kommer med $\frac{1}{12}$ av hver sin maken pizza. Hvor mye pizza har de i alt?**27**

a) $\frac{5}{8}$

b) $\frac{4}{8} = \frac{1}{2}$

28

a) $2\frac{3}{4}$ liter

b) Nei

$2\frac{3}{4}$ liter + $1\frac{3}{4}$ liter = $4\frac{1}{2}$ liter

29

a) $\frac{8}{15}$ liter

b) $\frac{7}{15}$ liter

c) $\frac{29}{30}$ liter

30

$1\frac{1}{10}$ liter

31

$\frac{3}{5}$

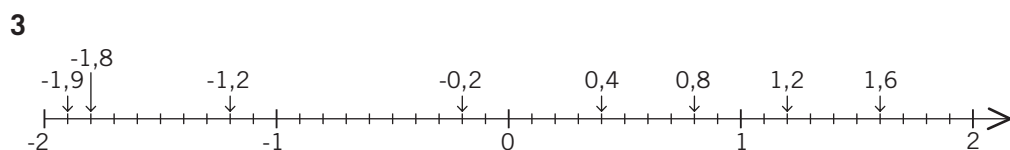
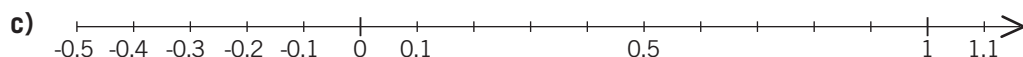
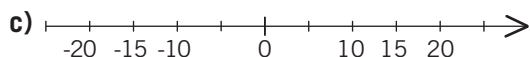
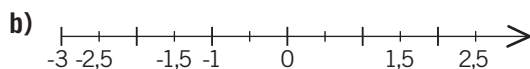
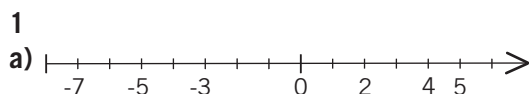
$1\frac{1}{5}$

$\frac{8}{5}$

$2\frac{1}{5}$

$\frac{14}{5}$

Kapittel 2 Tall og tallforståelse s. 12

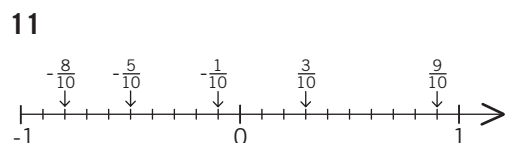
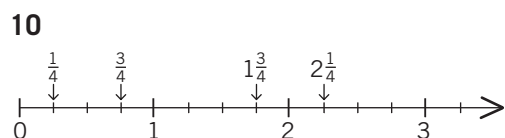
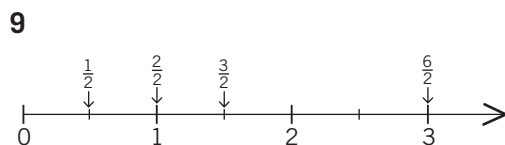
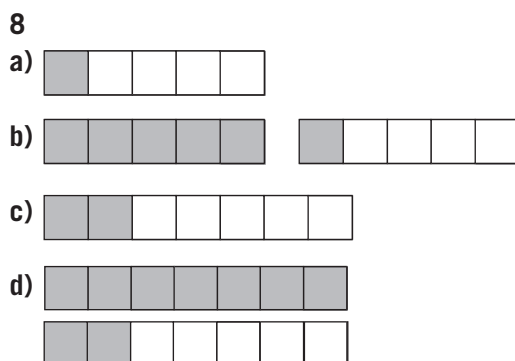
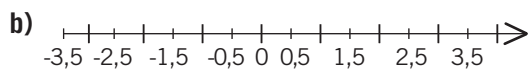
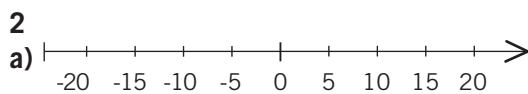


- 4**
- a) 12 315 og 10 001
 b) -101 og -1217
 c) 0,7 og 0,99
 d) -1,007 og -1,09
 e) 5
 f) 4,91

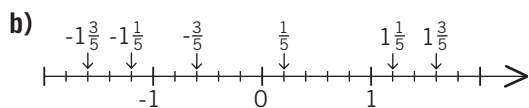
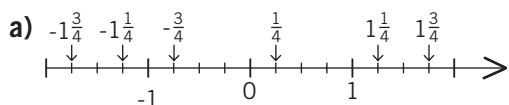
- 5**
- a) $-9 < -7$
 b) $-3 > -4$
 c) $0 > -8$
 d) $-100 > -101$

- 6**
- a) $-34 > -97$
 b) $-2005 < -200$
 c) $-1 < 0$
 d) $0 > -18$

- 7**
- a) $\frac{1}{2}$ c) $\frac{3}{4}$ e) $\frac{11}{16}$
 b) $\frac{5}{8}$ d) $\frac{2}{7}$ f) $\frac{5}{8}$



12



13

a) $-\frac{5}{2} < 0$

c) $\frac{5}{2} > 1$

b) $-\frac{7}{6} > -1$

d) $\frac{5}{2} > \frac{7}{6}$

14

a) 34 5 487

b) 34 -8 5 487

c) -8 -3,4 $-\frac{5}{9}$

d) 2,9 -3,4 $-\frac{5}{9}$

15

a) $-20 \text{ og } -6247$

b) $-81,4$

c) $\frac{3}{17}$

d) -6247

16

a) $-1 > -\frac{5}{2}$

b) $-\frac{1}{5} < -\frac{1}{6}$

c) $-\frac{8}{114} > -\frac{1}{2}$

d) $-\frac{6}{10} > -\frac{7}{10}$

17

a) $472 = 4 \cdot 100 + 7 \cdot 10 + 2 \cdot 1$

b) $81 = 8 \cdot 10 + 1 \cdot 1$

c) $407 = 4 \cdot 100 + 0 \cdot 10 + 7 \cdot 1$

d) $430 = 4 \cdot 100 + 3 \cdot 10 + 0 \cdot 1$

18

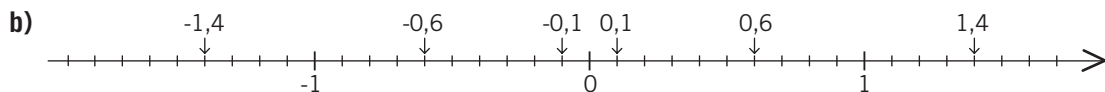
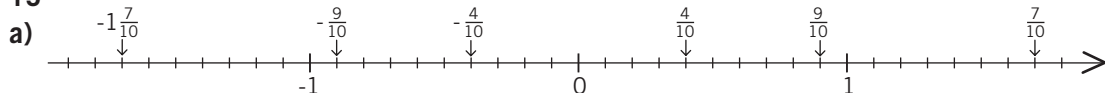
a) $6,3 = 6 \cdot 1 + 3 \cdot 0,1$

b) $13,2 = 1 \cdot 10 + 3 \cdot 1 + 2 \cdot 0,1$

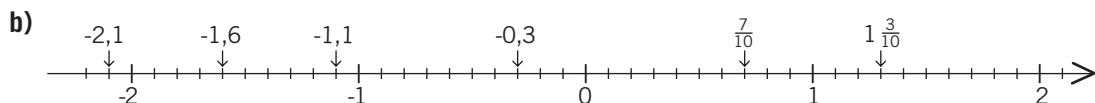
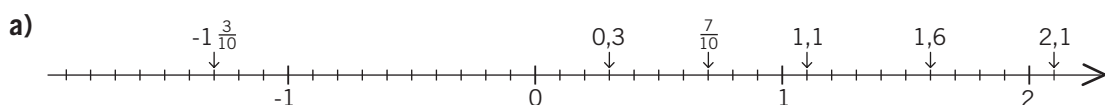
c) $4,86 = 4 \cdot 1 + 8 \cdot 0,1 + 6 \cdot 0,01$

d) $25,94 = 2 \cdot 10 + 5 \cdot 1 + 9 \cdot 0,1 + 4 \cdot 0,01$

19



20



21

a) $638 = 6 \cdot 100 + 3 \cdot 10 + 8 \cdot 1$

b) $507 = 5 \cdot 100 + 0 \cdot 10 + 7 \cdot 1$

c) $306 = 3 \cdot 100 + 0 \cdot 10 + 6 \cdot 1$

22

a) $3709 = 3 \cdot 1000 + 7 \cdot 100 + 0 \cdot 10 + 9 \cdot 1$

b) $4003 = 4 \cdot 1000 + 0 \cdot 100 + 0 \cdot 10 + 3 \cdot 1$

c) $30\,401 = 3 \cdot 10\,000 + 0 \cdot 1000$
 $+ 4 \cdot 100 + 0 \cdot 10 + 1 \cdot 1$

23

a) Fem

b) Sju

c) Tre

d) Ni

e) To

f) $532,97 = 5 \cdot 100 + 3 \cdot 10 + 2 \cdot 1$
 $+ 9 \cdot 0,1 + 7 \cdot 0,01$

24

a) $0,1 \left(\frac{1}{10}\right)$

b) 10

c) $0,001 \left(\frac{1}{1000}\right)$

d) $0,01 \left(\frac{1}{100}\right)$

e) 1

25

58,734

26

7 og 13

Har bare faktorene 1 og seg selv.

27

27 4 9 189 15
 Har andre faktorer enn 1 og seg selv.

28

64 25 32 81

Har andre faktorer enn 1 og seg selv.

29

Alle faktorene er primtall.

30

a) $12 = 2 \cdot 2 \cdot 3$

b) $16 = 2 \cdot 2 \cdot 2 \cdot 2$

c) $32 = 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2$

d) $24 = 2 \cdot 2 \cdot 2 \cdot 3$

e) $48 = 2 \cdot 2 \cdot 2 \cdot 2 \cdot 3$

f) $100 = 2 \cdot 2 \cdot 5 \cdot 5$

31

a) Nei, 36 er ikke primtall.

b) Nei, 4 og 18 er ikke primtall.

c) Nei, 9 er ikke primtall.

d) Ja, både 2 og 3 er primtall.

32

a) $-4 + 2 > -4 - 2$

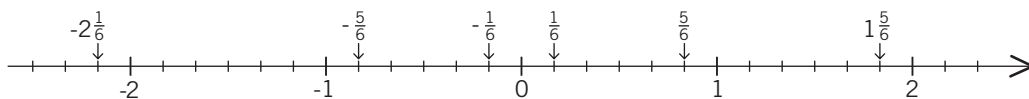
b) $10 - 14 > -2 - 3$

c) $6 - 9 < -3 + 5 - 1$

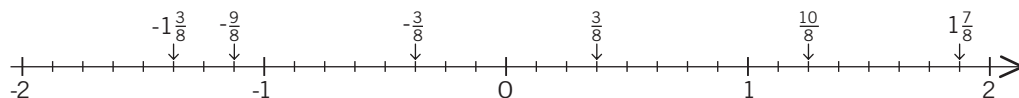
d) $-3 - 7 < -2 - 4$

33

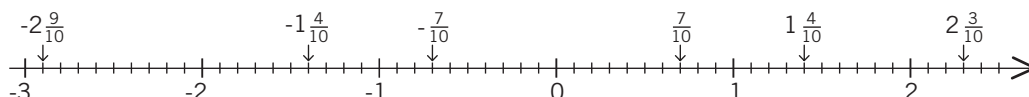
a)



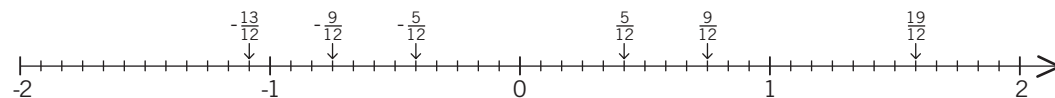
b)



c)



d)



34

- a) Tre hundre og åtte tusen fire hundre og sekstisju
 b) 30 048
 c) 30 148

35

- a) Partall
 b) Oddetall
 c) Partall
 d) Oddetall

36

- a) $144 = 2 \cdot 2 \cdot 2 \cdot 2 \cdot 3 \cdot 3$
 b) $300 = 2 \cdot 2 \cdot 3 \cdot 5 \cdot 5$
 c) $196 = 2 \cdot 2 \cdot 7 \cdot 7$

37

- a) $2 \cdot 2 = 4$
 b) $2 \cdot 7 = 14$
 c) $2 \cdot 12 = 2 \cdot 2 \cdot 6 = 2 \cdot 2 \cdot 2 \cdot 3$
 $= 3 \cdot 2 \cdot 4 = 3 \cdot 8 = 4 \cdot 6 = 4 \cdot 2 \cdot 3 = 24$
 d) $2 \cdot 14 = 2 \cdot 2 \cdot 7 = 4 \cdot 7 = 28$

38

- a) 5
 b) 2, 4, 8 eller 16
 c) 2, 4, 8, 16 eller 32
 d) 3, 9 eller 27

39

- $6 \cdot 6 + 6 \cdot 6 + 3 \cdot 14 = 114$
 $2 \cdot 6 \cdot 6 + 3 \cdot 14 = 114$
 $9 \cdot 14 - 6 \cdot 2 = 114$

40

- 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47

41

Halvparten

42

Uendelig mange

43

- a) $\frac{11}{60}$ b) $\frac{3}{10}$

44

- a) 0,71 b) 0,78 c) 0,717 d) 7,01

45

- a) -0,9 b) -1 c) -0,91 d) 0

46

- a) -0,99 b) -1,09 c) -1 d) -0,09

47

Tall	Faktorer
2	1, 2
3	1, 3
4	1, 2, 4
5	1, 5
6	1, 2, 3, 6
7	1, 7
8	1, 2, 4, 8
9	1, 3, 9
10	1, 2, 5, 10
11	1, 11
12	1, 2, 3, 4, 6, 12
13	1, 13
14	1, 2, 7, 14
15	1, 3, 5, 15
16	1, 2, 4, 8, 16
17	1, 17
18	1, 2, 3, 6, 9, 18
19	1, 19
20	1, 2, 4, 5, 10, 20

48

- a) 2, 3, 4, 5, 7, 8, 9, 10, 11, 13, 14, 15, 16, 17, 19
 b) 12, 18
 c) 6

Litt av hvert s. 22**1**

- a) 711 c) 360,91
 b) 8636 d) 5,82

2

- a) 36 c) 54 e) 42
 b) 56 d) 32 f) 24

3

- a) 234 b) 1155 c) 2422

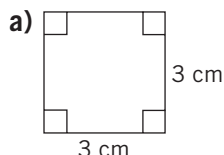
4

- a) 4 c) 8 e) 5
b) 3 d) 8 f) 10

5

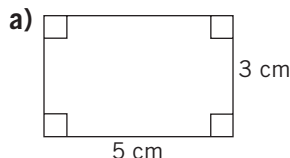
- a) 15 b) 16 c) 23

6



- b) Alle sidene er like lange.
Alle vinklene er 90° .
Diagonalene er like lange, står vinkelrett på hverandre og halverer hverandre og vinklene.
- c) 12 cm
d) 9 cm^2

7



- b) Alle vinkel er 90° . Motstående sider er parallelle og like lange. Diagonalene er like lange og halverer hverandre.
- c) 16 cm
d) 15 cm^2

8

- a) $3 \text{ m} = 30 \text{ dm} = 300 \text{ cm}$
b) $4,9 \text{ m} = 49 \text{ dm} = 490 \text{ cm}$
c) $1,94 \text{ m} = 19,4 \text{ dm} = 194 \text{ cm}$
d) $2,13 \text{ m} = 21,3 \text{ dm} = 213 \text{ cm}$

9

8,7 km

10

Seks og ni tideler

11

- a) 4,7 c) 10 (10,0)
b) 41 (41,0) d) 1 (1,0)

12

- a) 2,9 b) 39,9 c) 9,81 d) 0,09

13

- a) 4,31 c) 10,26
b) 72,02 d) 3 (3,00)

14

- a) 7,676 c) 7,189
b) 3,990 d) 0,180

15

- a) 52 kr b) 111 kr c) 186 kr

16

- a) 7,905 kg b) 185 kr c) 43 kr

Kapittel 3 Multiplikasjon s. 25

1

- a) 80 c) 450 e) 630
b) 210 d) 180 f) 560

2

- a) 2700 c) 3200 e) 12 000
b) 3500 d) 2000 f) 42 000

3

- a) 360 cm c) 80 kr
b) 72 kr d) 40 cm

4

- a) 384 c) 1440
b) 1134 d) 5628

5

- a) 360 b) 540 c) 900

6

- a) 5415 b) 12 236 c) 9253 d) 9690

7

- a) 2784 b) 216

8

- a) 5850 kr b) 1040 kr c) 6890 kr

9

- a) 34,6 c) 123,2 e) 9240
b) 863 d) 539 f) 480

10

- a) 8,46 c) 846 e) 48,9
b) 84,6 d) 489 f) 4,89

11

- a) $3,57 \cdot 10 = 35,7$
b) $35,7 \cdot 10 = 357$
c) $0,357 \cdot 10 = 3,57$
d) $0,463 \cdot 100 = 46,3$
e) $8,9 \cdot 10 = 89$
f) $36 \cdot 10 = 360$

12

- a) $36 \cdot 10 = 360$
b) $3,5 \cdot 100 = 350$
c) $27 \cdot 100 = 2700$
d) $40 \cdot 100 = 4000$

13

- a) 250 kr c) 2100
b) 10 500 kr d) 300

14

- a) 9 c) 900 e) 32
b) 90 d) 3,2 f) 320

15

- a) $8,94 \cdot 10 = 89,4$
b) $0,894 \cdot 100 = 89,4$
c) $0,0894 \cdot 1000 = 89,4$
d) $0,86 \cdot 10 = 8,6$
e) $0,86 \cdot 100 = 86$
f) $0,86 \cdot 1000 = 860$

16

- a) $20 \cdot 20 = 400$

b) $300 \cdot 30 = 9000$

c) $2,5 \cdot 3000 = 7500$

d) $42 \cdot 200 = 8400$

17

- a) 240 b) 45 c) 500 d) 1200

18

- a) 3827 c) 3528
b) 2176 d) 8084

19

- a) 10 634 c) 25 578
b) 9126 d) 22 625

20

- a) 520 km b) 468 km c) 52 km

21

4506 kr

22

- a) 20 286 c) 38 304 e) 6720
b) 38 052 d) 29 638 f) 24 600

23

- a) 3,0 c) 22,2 e) 26,67
b) 3,2 d) 30,90 f) 4,2

24

- a) 32,610 c) 156,078
b) 197,964 d) 246,369

25

- a) To
b) En
c) Tre
24,581

26

108,1

27

- a) 305,55 kr b) 51 kr

28

2010 kr

29

44,50 kr (44,55 kr)

30

4 (Kaja + 3)

31

a) 8684 kr b) 83,50 kr

32

a) 4992 kr
b) 3993,50 kr
 (3993,60 kr)
c) 3766 kr

33

a) 32,93 b) 34,50 c) 78,02 d) 39,33

34

a) 300,72 c) 43,316
b) 284,05 d) 29,055

35

a) 21 547 kr
b) 700 kr
c) De tjente 3347 kr.

36

a) 14,04 m² b) 27 m

37

a) 4110 kr c) Tap 210 kr
b) 3900 kr

38

4784 kr

39

19 375 liter

40

30 cm

41

a) 132
b) 5423

c) 1243

d) $532 : 4 = 133$

42

a) $43 \cdot 15 = 645$
b) $24 \cdot 5 = 120$
c) $13 \cdot 8 = 104$
d) $17 \cdot 13 = 221$
e) $28 \cdot 27 = 756$

43

a) $3367 \cdot 33 = 111111$
b) $3367 \cdot 66 = 222222$
c) $3367 \cdot 99 = 333333$
d) $3367 \cdot 132 = 444444$
e) $3367 \cdot 165 = 555555$
f) $3367 \cdot 198 = 666666$
g) $3367 \cdot 231 = 777777$
h) $3367 \cdot 264 = 888888$
i) $3367 \cdot 297 = 999999$

44

Differansen er alltid 28.

Litt av hvert s. 37

1

a) $\frac{28}{100} = \frac{7}{25}$ b) $\frac{60}{100} = \frac{3}{5}$ c) $\frac{12}{100} = \frac{3}{25}$

2

$\frac{28}{100} = 28\%$ $\frac{60}{100} = 60\%$ $\frac{12}{100} = 12\%$

3

a) 4 % c) 75 % e) 40 %
b) 18 % d) 50 % f) 90 %

4

a) 377 b) 205 c) 552 d) 896

5

a) 4380 c) 14 688
b) 10 545

6

a) 34 b) 50 c) 33,4 d) 25

7

- a) 59 b) 66 c) 8 d) 18

8

- a) 168,4 m c) 20,58 liter
b) 4,3 kg d) 49,632 tonn

9

- a) 13 b) 17 c) 26 d) 34

10

- a) 1000 g c) 4300 g
b) 600 g d) 320 g

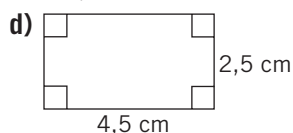
11

- a) 3000 m d) 0,6 m
b) 20 000 m e) 0,5 m
c) 6 m f) 0,54 m

12

- a) Rektangel
b) Sider: 9 cm og 2,5 m
 $O = 23 \text{ cm}$

- c) $22,5 \text{ cm}^2$



- e) 14 cm

13

- a) 6 t og 5 min
b) 50 min
c) 13 t

14

- a) Kl. 08.28 eller 20.28
b) Kl. 09.08 eller 21.08
c) Kl. 05.54 eller 17.54
d) Kl. 06.20 eller 18.20

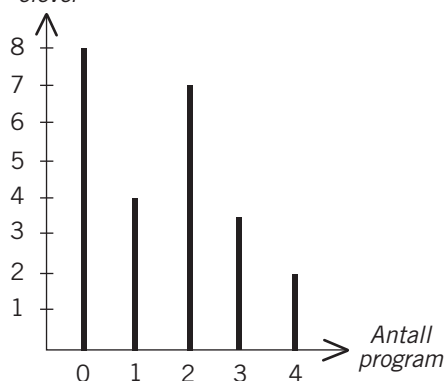
15

- a) 24

b)

Antall programmer	Frekvens (antall elever)
0	8
1	4
2	7
3	3
4	2
Sum	24

- c) *Antall elever*



- d) 1,5 programmer
e) 1,46 programmer
f) 0 programmer

Kapittel 4 Divisjon 1 s. 40

1

30 kr

2

15

3

- a) 46 kr b) 38 kr

4

- a) 3,8 b) 9,4 c) 38,2 d) 40,6

5

- a) 3,65 c) 48,37
b) 7,84 d) 20,08

14

a) $-2\frac{1}{4}, -\frac{7}{4}, -1\frac{1}{4}, -\frac{3}{4}, \frac{1}{4}, \frac{10}{4}$

b) $-\frac{8}{10}, -\frac{1}{10}, \frac{7}{10}, 1\frac{1}{10}, \frac{13}{10}, \frac{26}{10}$

15

De utgjør like store deler av et hele.

16

For eksempel:

a) $\frac{1}{3} = \frac{5}{15}$ c) $\frac{1}{5} = \frac{2}{10}$ e) $\frac{3}{4} = \frac{6}{8}$

b) $\frac{1}{4} = \frac{3}{12}$ d) $\frac{2}{3} = \frac{8}{12}$ f) $\frac{2}{5} = \frac{6}{15}$

17

a) $\frac{1}{3} = \frac{2}{6}$ c) $\frac{2}{3} = \frac{4}{6}$ e) $\frac{3}{2} = \frac{9}{6}$

b) $\frac{1}{2} = \frac{3}{6}$ d) $\frac{4}{3} = \frac{8}{6}$ f) $\frac{5}{12} = \frac{15}{6}$

18

a) $\frac{1}{4} = \frac{4}{16}$ c) $\frac{2}{8} = \frac{4}{16}$ e) $\frac{3}{2} = \frac{24}{16}$

b) $\frac{1}{2} = \frac{8}{16}$ d) $\frac{3}{8} = \frac{6}{16}$ f) $\frac{3}{4} = \frac{12}{16}$

19

a) $\frac{1}{3} = \frac{5}{15}$ c) $\frac{2}{3} = \frac{10}{15}$ e) $\frac{7}{5} = \frac{21}{15}$

b) $\frac{1}{5} = \frac{3}{15}$ d) $\frac{1}{5} = \frac{12}{15}$ f) $\frac{8}{3} = \frac{40}{15}$

20

a) $\frac{5}{3} = 1\frac{2}{3}$ b) $\frac{7}{6} = 1\frac{1}{6}$ c) $\frac{9}{4} = 2\frac{1}{4}$ d) $\frac{7}{8}$

21

a) $\frac{5}{5} = 1$

b) $\frac{7}{10}$

c) $\frac{15}{10} = \frac{3}{2} = 1\frac{1}{2}$

d) $\frac{20}{10} = 2$

22

a) $\frac{25}{20} = \frac{5}{4} = 1\frac{1}{4}$

b) $\frac{17}{20}$

c) $\frac{8}{12} = \frac{2}{3}$

d) $\frac{28}{12} = \frac{7}{3} = 2\frac{1}{3}$

23

a) $\frac{9}{14}$

b) $\frac{3}{14}$

c) $\frac{1}{15}$

d) 0

24

a) $\frac{9}{6} = \frac{3}{2} = 1\frac{1}{2}$

c) $\frac{1}{12}$

b) $\frac{7}{4} = 1\frac{3}{4}$

d) $\frac{2}{15}$

25

a) $\frac{5}{6}$

c) $\frac{11}{10} = 1\frac{1}{10}$

e) $\frac{15}{8} = 1\frac{7}{8}$

b) $\frac{7}{6} = 1\frac{1}{6}$

d) $\frac{9}{10}$

f) $2\frac{1}{10} = \frac{21}{10} = 2\frac{1}{10}$

26

For eksempel:

a) Det spises $\frac{1}{12}$ av en pizza. Av en annen maken pizza er det også spist $\frac{1}{12}$. Hvor mye pizza er det til sammen igjen?b) Mia har to hele pizzaer. Jon og Kaja kommer med $\frac{1}{12}$ av hver sin maken pizza. Hvor mye pizza har de i alt?**27**

a) $\frac{5}{8}$

b) $\frac{4}{8} = \frac{1}{2}$

28

a) $2\frac{3}{4}$ liter

b) Nei

$2\frac{3}{4}$ liter + $1\frac{3}{4}$ liter = $4\frac{1}{2}$ liter

29

a) $\frac{8}{15}$ liter

b) $\frac{7}{15}$ liter

c) $\frac{29}{30}$ liter

30

$1\frac{1}{10}$ liter

31

$\frac{3}{5}$

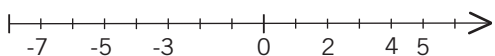
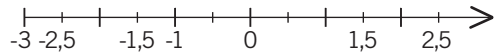
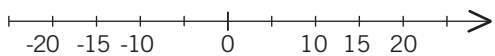
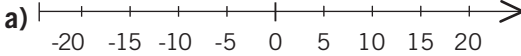
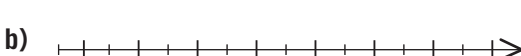
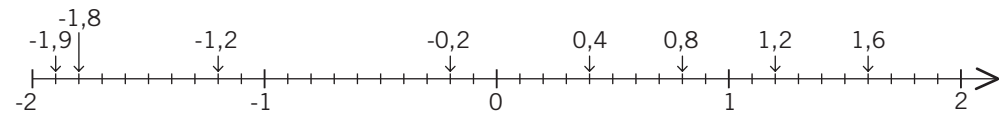

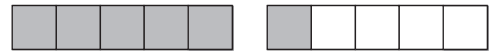


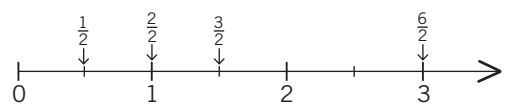
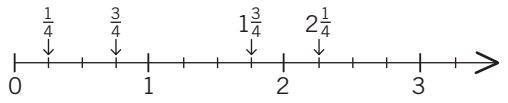
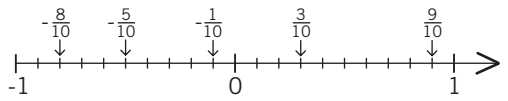
$1\frac{1}{5}$

$\frac{8}{5}$

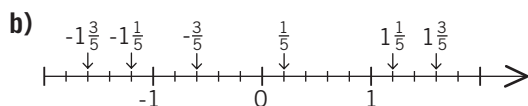
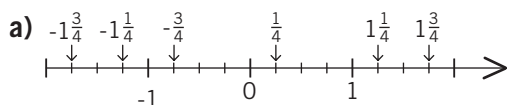
$2\frac{1}{5}$

$\frac{14}{5}$

Kapittel 2 Tall og tallforståelse s. 12

- 1**
- a) 
- b) 
- c) 
- 2**
- a) 
- b) 
- 3**
- 
- 4**
- a) 12 315 og 10 001
- b) -101 og -1217
- c) 0,7 og 0,99
- d) -1,007 og -1,09
- e) 5
- f) 4,91
- 5**
- a) $-9 < -7$
- b) $-3 > -4$
- c) $0 > -8$
- d) $-100 > -101$
- 6**
- a) $-34 > -97$
- b) $-2005 < -200$
- c) $-1 < 0$
- d) $0 > -18$
- 7**
- a) $\frac{1}{2}$ c) $\frac{3}{4}$ e) $\frac{11}{16}$
- b) $\frac{5}{8}$ d) $\frac{2}{7}$ f) $\frac{5}{8}$
- 8**
- a) 
- b) 
- c) 
- d) 
- 9**
- 
- 10**
- 
- 11**
- 

12



13

a) $-\frac{5}{2} < 0$

c) $\frac{5}{2} > 1$

b) $-\frac{7}{6} > -1$

d) $\frac{5}{2} > \frac{7}{6}$

14

a) 34 5 487

b) 34 -8 5 487

c) -8 -3,4 $-\frac{5}{9}$

d) 2,9 -3,4 $-\frac{5}{9}$

15

a) $-20 \text{ og } -6247$

b) $-81,4$

c) $\frac{3}{17}$

d) -6247

16

a) $-1 > -\frac{5}{2}$

b) $-\frac{1}{5} < -\frac{1}{6}$

c) $-\frac{8}{114} > -\frac{1}{2}$

d) $-\frac{6}{10} > -\frac{7}{10}$

17

a) $472 = 4 \cdot 100 + 7 \cdot 10 + 2 \cdot 1$

b) $81 = 8 \cdot 10 + 1 \cdot 1$

c) $407 = 4 \cdot 100 + 0 \cdot 10 + 7 \cdot 1$

d) $430 = 4 \cdot 100 + 3 \cdot 10 + 0 \cdot 1$

18

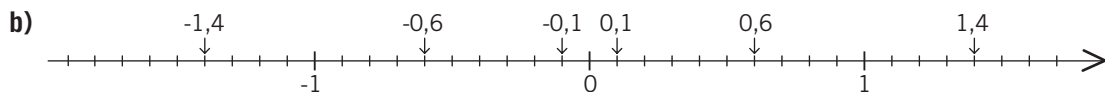
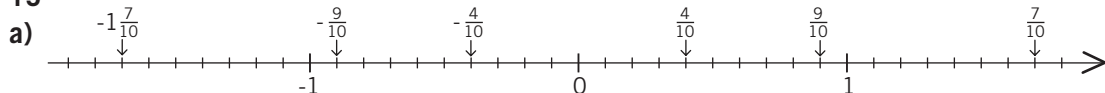
a) $6,3 = 6 \cdot 1 + 3 \cdot 0,1$

b) $13,2 = 1 \cdot 10 + 3 \cdot 1 + 2 \cdot 0,1$

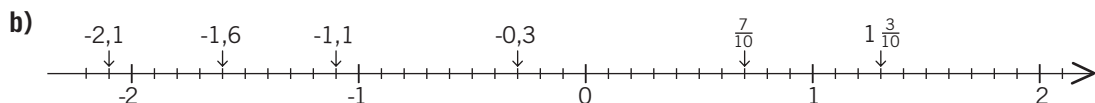
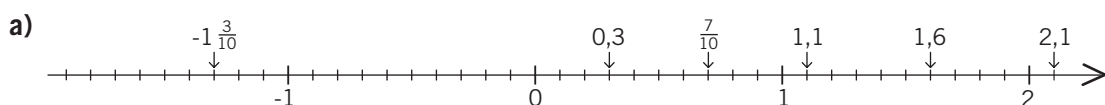
c) $4,86 = 4 \cdot 1 + 8 \cdot 0,1 + 6 \cdot 0,01$

d) $25,94 = 2 \cdot 10 + 5 \cdot 1 + 9 \cdot 0,1 + 4 \cdot 0,01$

19



20



21

a) $638 = 6 \cdot 100 + 3 \cdot 10 + 8 \cdot 1$

b) $507 = 5 \cdot 100 + 0 \cdot 10 + 7 \cdot 1$

c) $306 = 3 \cdot 100 + 0 \cdot 10 + 6 \cdot 1$

22

a) $3709 = 3 \cdot 1000 + 7 \cdot 100 + 0 \cdot 10 + 9 \cdot 1$

b) $4003 = 4 \cdot 1000 + 0 \cdot 100 + 0 \cdot 10 + 3 \cdot 1$

c) $30\,401 = 3 \cdot 10\,000 + 0 \cdot 1000$
 $+ 4 \cdot 100 + 0 \cdot 10 + 1 \cdot 1$

23

a) Fem

b) Sju

c) Tre

d) Ni

e) To

f) $532,97 = 5 \cdot 100 + 3 \cdot 10 + 2 \cdot 1$
 $+ 9 \cdot 0,1 + 7 \cdot 0,01$

24

a) $0,1 \left(\frac{1}{10}\right)$

b) 10

c) $0,001 \left(\frac{1}{1000}\right)$

d) $0,01 \left(\frac{1}{100}\right)$

e) 1

25

58,734

26

7 og 13

Har bare faktorene 1 og seg selv.

27

27 4 9 189 15
 Har andre faktorer enn 1 og seg selv.

28

64 25 32 81

Har andre faktorer enn 1 og seg selv.

29

Alle faktorene er primtall.

30

a) $12 = 2 \cdot 2 \cdot 3$

b) $16 = 2 \cdot 2 \cdot 2 \cdot 2$

c) $32 = 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2$

d) $24 = 2 \cdot 2 \cdot 2 \cdot 3$

e) $48 = 2 \cdot 2 \cdot 2 \cdot 2 \cdot 3$

f) $100 = 2 \cdot 2 \cdot 5 \cdot 5$

31

a) Nei, 36 er ikke primtall.

b) Nei, 4 og 18 er ikke primtall.

c) Nei, 9 er ikke primtall.

d) Ja, både 2 og 3 er primtall.

32

a) $-4 + 2 > -4 - 2$

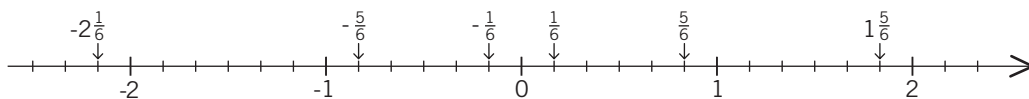
b) $10 - 14 > -2 - 3$

c) $6 - 9 < -3 + 5 - 1$

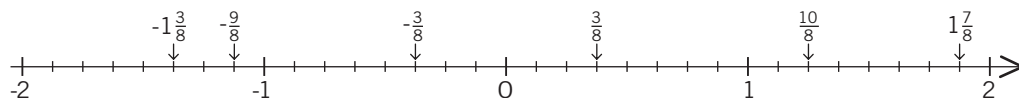
d) $-3 - 7 < -2 - 4$

33

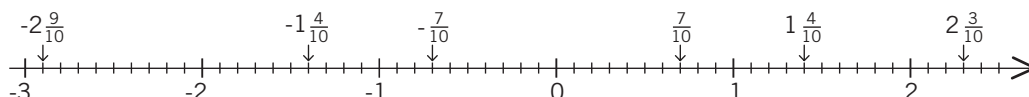
a)



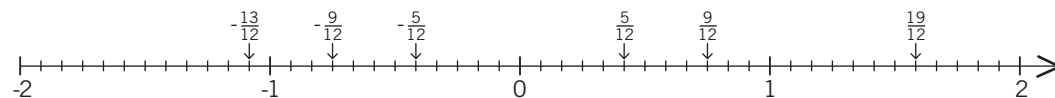
b)



c)



d)



34

- a) Tre hundre og åtte tusen fire hundre og sekstisju
 b) 30 048
 c) 30 148

35

- a) Partall
 b) Oddetall
 c) Partall
 d) Oddetall

36

- a) $144 = 2 \cdot 2 \cdot 2 \cdot 2 \cdot 3 \cdot 3$
 b) $300 = 2 \cdot 2 \cdot 3 \cdot 5 \cdot 5$
 c) $196 = 2 \cdot 2 \cdot 7 \cdot 7$

37

- a) $2 \cdot 2 = 4$
 b) $2 \cdot 7 = 14$
 c) $2 \cdot 12 = 2 \cdot 2 \cdot 6 = 2 \cdot 2 \cdot 2 \cdot 3$
 $= 3 \cdot 2 \cdot 4 = 3 \cdot 8 = 4 \cdot 6 = 4 \cdot 2 \cdot 3 = 24$
 d) $2 \cdot 14 = 2 \cdot 2 \cdot 7 = 4 \cdot 7 = 28$

38

- a) 5
 b) 2, 4, 8 eller 16
 c) 2, 4, 8, 16 eller 32
 d) 3, 9 eller 27

39

- $6 \cdot 6 + 6 \cdot 6 + 3 \cdot 14 = 114$
 $2 \cdot 6 \cdot 6 + 3 \cdot 14 = 114$
 $9 \cdot 14 - 6 \cdot 2 = 114$

40

- 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47

41

Halvparten

42

Uendelig mange

43

- a) $\frac{11}{60}$ b) $\frac{3}{10}$

44

- a) 0,71 b) 0,78 c) 0,717 d) 7,01

45

- a) -0,9 b) -1 c) -0,91 d) 0

46

- a) -0,99 b) -1,09 c) -1 d) -0,09

47

Tall	Faktorer
2	1, 2
3	1, 3
4	1, 2, 4
5	1, 5
6	1, 2, 3, 6
7	1, 7
8	1, 2, 4, 8
9	1, 3, 9
10	1, 2, 5, 10
11	1, 11
12	1, 2, 3, 4, 6, 12
13	1, 13
14	1, 2, 7, 14
15	1, 3, 5, 15
16	1, 2, 4, 8, 16
17	1, 17
18	1, 2, 3, 6, 9, 18
19	1, 19
20	1, 2, 4, 5, 10, 20

48

- a) 2, 3, 4, 5, 7, 8, 9, 10, 11, 13, 14, 15, 16, 17, 19
 b) 12, 18
 c) 6

Litt av hvert s. 22**1**

- a) 711 c) 360,91
 b) 8636 d) 5,82

2

- a) 36 c) 54 e) 42
 b) 56 d) 32 f) 24

3

- a) 234 b) 1155 c) 2422

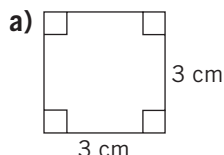
4

- a) 4 c) 8 e) 5
b) 3 d) 8 f) 10

5

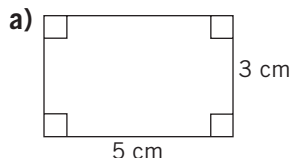
- a) 15 b) 16 c) 23

6



- b) Alle sidene er like lange.
Alle vinklene er 90° .
Diagonalene er like lange, står vinkelrett på hverandre og halverer hverandre og vinklene.
- c) 12 cm
d) 9 cm^2

7



- b) Alle vinkel er 90° . Motstående sider er parallelle og like lange. Diagonalene er like lange og halverer hverandre.
- c) 16 cm
d) 15 cm^2

8

- a) $3 \text{ m} = 30 \text{ dm} = 300 \text{ cm}$
b) $4,9 \text{ m} = 49 \text{ dm} = 490 \text{ cm}$
c) $1,94 \text{ m} = 19,4 \text{ dm} = 194 \text{ cm}$
d) $2,13 \text{ m} = 21,3 \text{ dm} = 213 \text{ cm}$

9

8,7 km

10

Seks og ni tideler

11

- a) 4,7 c) 10 (10,0)
b) 41 (41,0) d) 1 (1,0)

12

- a) 2,9 b) 39,9 c) 9,81 d) 0,09

13

- a) 4,31 c) 10,26
b) 72,02 d) 3 (3,00)

14

- a) 7,676 c) 7,189
b) 3,990 d) 0,180

15

- a) 52 kr b) 111 kr c) 186 kr

16

- a) 7,905 kg b) 185 kr c) 43 kr

Kapittel 3 Multiplikasjon s. 25

1

- a) 80 c) 450 e) 630
b) 210 d) 180 f) 560

2

- a) 2700 c) 3200 e) 12 000
b) 3500 d) 2000 f) 42 000

3

- a) 360 cm c) 80 kr
b) 72 kr d) 40 cm

4

- a) 384 c) 1440
b) 1134 d) 5628

5

- a) 360 b) 540 c) 900

6

- a) 5415 b) 12 236 c) 9253 d) 9690

7

- a) 2784 b) 216

8

- a) 5850 kr b) 1040 kr c) 6890 kr

9

- a) 34,6 c) 123,2 e) 9240
b) 863 d) 539 f) 480

10

- a) 8,46 c) 846 e) 48,9
b) 84,6 d) 489 f) 4,89

11

- a) $3,57 \cdot 10 = 35,7$
b) $35,7 \cdot 10 = 357$
c) $0,357 \cdot 10 = 3,57$
d) $0,463 \cdot 100 = 46,3$
e) $8,9 \cdot 10 = 89$
f) $36 \cdot 10 = 360$

12

- a) $36 \cdot 10 = 360$
b) $3,5 \cdot 100 = 350$
c) $27 \cdot 100 = 2700$
d) $40 \cdot 100 = 4000$

13

- a) 250 kr c) 2100
b) 10 500 kr d) 300

14

- a) 9 c) 900 e) 32
b) 90 d) 3,2 f) 320

15

- a) $8,94 \cdot 10 = 89,4$
b) $0,894 \cdot 100 = 89,4$
c) $0,0894 \cdot 1000 = 89,4$
d) $0,86 \cdot 10 = 8,6$
e) $0,86 \cdot 100 = 86$
f) $0,86 \cdot 1000 = 860$

16

- a) $20 \cdot 20 = 400$

b) $300 \cdot 30 = 9000$

c) $2,5 \cdot 3000 = 7500$

d) $42 \cdot 200 = 8400$

17

- a) 240 b) 45 c) 500 d) 1200

18

- a) 3827 c) 3528
b) 2176 d) 8084

19

- a) 10 634 c) 25 578
b) 9126 d) 22 625

20

- a) 520 km b) 468 km c) 52 km

21

4506 kr

22

- a) 20 286 c) 38 304 e) 6720
b) 38 052 d) 29 638 f) 24 600

23

- a) 3,0 c) 22,2 e) 26,67
b) 3,2 d) 30,90 f) 4,2

24

- a) 32,610 c) 156,078
b) 197,964 d) 246,369

25

- a) To
b) En
c) Tre
24,581

26

108,1

27

- a) 305,55 kr b) 51 kr

28

2010 kr

29

44,50 kr (44,55 kr)

30

4 (Kaja + 3)

31

a) 8684 kr b) 83,50 kr

32

a) 4992 kr
b) 3993,50 kr
 (3993,60 kr)
c) 3766 kr

33

a) 32,93 b) 34,50 c) 78,02 d) 39,33

34

a) 300,72 c) 43,316
b) 284,05 d) 29,055

35

a) 21 547 kr
b) 700 kr
c) De tjente 3347 kr.

36

a) 14,04 m² b) 27 m

37

a) 4110 kr c) Tap 210 kr
b) 3900 kr

38

4784 kr

39

19 375 liter

40

30 cm

41

a) 132
b) 5423

c) 1243

d) $532 : 4 = 133$

42

a) $43 \cdot 15 = 645$
b) $24 \cdot 5 = 120$
c) $13 \cdot 8 = 104$
d) $17 \cdot 13 = 221$
e) $28 \cdot 27 = 756$

43

a) $3367 \cdot 33 = 111111$
b) $3367 \cdot 66 = 222222$
c) $3367 \cdot 99 = 333333$
d) $3367 \cdot 132 = 444444$
e) $3367 \cdot 165 = 555555$
f) $3367 \cdot 198 = 666666$
g) $3367 \cdot 231 = 777777$
h) $3367 \cdot 264 = 888888$
i) $3367 \cdot 297 = 999999$

44

Differansen er alltid 28.

Litt av hvert s. 37

1

a) $\frac{28}{100} = \frac{7}{25}$ b) $\frac{60}{100} = \frac{3}{5}$ c) $\frac{12}{100} = \frac{3}{25}$

2

$\frac{28}{100} = 28\%$ $\frac{60}{100} = 60\%$ $\frac{12}{100} = 12\%$

3

a) 4 % c) 75 % e) 40 %
b) 18 % d) 50 % f) 90 %

4

a) 377 b) 205 c) 552 d) 896

5

a) 4380 c) 14 688
b) 10 545

6

a) 34 b) 50 c) 33,4 d) 25

7

- a) 59 b) 66 c) 8 d) 18

8

- a) 168,4 m c) 20,58 liter
b) 4,3 kg d) 49,632 tonn

9

- a) 13 b) 17 c) 26 d) 34

10

- a) 1000 g c) 4300 g
b) 600 g d) 320 g

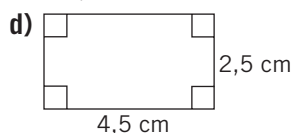
11

- a) 3000 m d) 0,6 m
b) 20 000 m e) 0,5 m
c) 6 m f) 0,54 m

12

- a) Rektangel
b) Sider: 9 cm og 2,5 m
O = 23 cm

- c) 22,5 cm²



- e) 14 cm

13

- a) 6 t og 5 min
b) 50 min
c) 13 t

14

- a) Kl. 08.28 eller 20.28
b) Kl. 09.08 eller 21.08
c) Kl. 05.54 eller 17.54
d) Kl. 06.20 eller 18.20

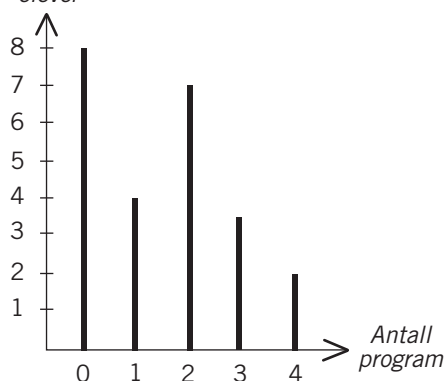
15

- a) 24

b)

Antall programmer	Frekvens (antall elever)
0	8
1	4
2	7
3	3
4	2
Sum	24

- c) *Antall elever*



- d) 1,5 programmer
e) 1,46 programmer
f) 0 programmer

Kapittel 4 Divisjon 1 s. 40

1

30 kr

2

15

3

- a) 46 kr b) 38 kr

4

- a) 3,8 b) 9,4 c) 38,2 d) 40,6

5

- a) 3,65 c) 48,37
b) 7,84 d) 20,08

Oppgavebok

Kapittel 1 God start s. 5

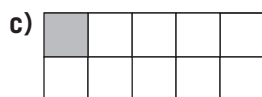
1

- a) $\frac{4}{5}$ b) $\frac{2}{3}$ c) $\frac{5}{6}$

2

- a) $\frac{4}{8} = \frac{1}{2}$ b) $\frac{3}{9} = \frac{1}{3}$ c) $\frac{2}{6} = \frac{1}{3}$

3



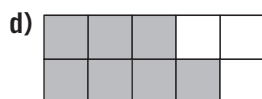
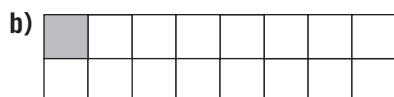
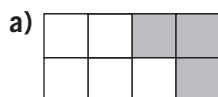
4

a) Hvor mange deler pizzaen har.

b) Hvor mange deler Mia spiser.

c) $\frac{16}{18} = \frac{8}{9}$

5



6

a) I fem like deler.

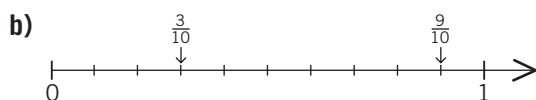
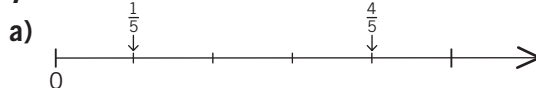
b) I seks like deler.

c) I ni like deler.

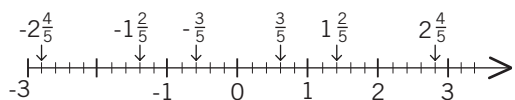
d) I ti like deler.

e) I tjue like deler.

7



8



9

A: $\frac{1}{4}$ B: $\frac{3}{4}$ C: $1\frac{2}{4} = 1\frac{1}{2}$

10

A: $\frac{2}{5}$ B: $\frac{4}{5}$ C: $1\frac{1}{5}$

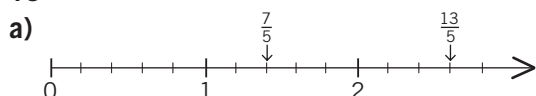
11

A: 0,4 B: 0,8 C: 1,2

12

A: $\frac{2}{6} = \frac{1}{3}$ B: $\frac{4}{6} = \frac{2}{3}$ C: $\frac{5}{6}$

13



14

a) $-2\frac{1}{4}, -\frac{7}{4}, -1\frac{1}{4}, -\frac{3}{4}, \frac{1}{4}, \frac{10}{4}$

b) $-\frac{8}{10}, -\frac{1}{10}, \frac{7}{10}, 1\frac{1}{10}, \frac{13}{10}, \frac{26}{10}$

15

De utgjør like store deler av et hele.

16

For eksempel:

a) $\frac{1}{3} = \frac{5}{15}$ c) $\frac{1}{5} = \frac{2}{10}$ e) $\frac{3}{4} = \frac{6}{8}$

b) $\frac{1}{4} = \frac{3}{12}$ d) $\frac{2}{3} = \frac{8}{12}$ f) $\frac{2}{5} = \frac{6}{15}$

17

a) $\frac{1}{3} = \frac{2}{6}$ c) $\frac{2}{3} = \frac{4}{6}$ e) $\frac{3}{2} = \frac{9}{6}$

b) $\frac{1}{2} = \frac{3}{6}$ d) $\frac{4}{3} = \frac{8}{6}$ f) $\frac{5}{12} = \frac{15}{6}$

18

a) $\frac{1}{4} = \frac{4}{16}$ c) $\frac{2}{8} = \frac{4}{16}$ e) $\frac{3}{2} = \frac{24}{16}$

b) $\frac{1}{2} = \frac{8}{16}$ d) $\frac{3}{8} = \frac{6}{16}$ f) $\frac{3}{4} = \frac{12}{16}$

19

a) $\frac{1}{3} = \frac{5}{15}$ c) $\frac{2}{3} = \frac{10}{15}$ e) $\frac{7}{5} = \frac{21}{15}$

b) $\frac{1}{5} = \frac{3}{15}$ d) $\frac{1}{5} = \frac{12}{15}$ f) $\frac{8}{3} = \frac{40}{15}$

20

a) $\frac{5}{3} = 1\frac{2}{3}$ b) $\frac{7}{6} = 1\frac{1}{6}$ c) $\frac{9}{4} = 2\frac{1}{4}$ d) $\frac{7}{8}$

21

a) $\frac{5}{5} = 1$

b) $\frac{7}{10}$

c) $\frac{15}{10} = \frac{3}{2} = 1\frac{1}{2}$

d) $\frac{20}{10} = 2$

22

a) $\frac{25}{20} = \frac{5}{4} = 1\frac{1}{4}$

b) $\frac{17}{20}$

c) $\frac{8}{12} = \frac{2}{3}$

d) $\frac{28}{12} = \frac{7}{3} = 2\frac{1}{3}$

23

a) $\frac{9}{14}$

b) $\frac{3}{14}$

c) $\frac{1}{15}$

d) 0

24

a) $\frac{9}{6} = \frac{3}{2} = 1\frac{1}{2}$

c) $\frac{1}{12}$

b) $\frac{7}{4} = 1\frac{3}{4}$

d) $\frac{2}{15}$

25

a) $\frac{5}{6}$

c) $\frac{11}{10} = 1\frac{1}{10}$

e) $\frac{15}{8} = 1\frac{7}{8}$

b) $\frac{7}{6} = 1\frac{1}{6}$

d) $\frac{9}{10}$

f) $2\frac{1}{10} = \frac{21}{10} = 2\frac{1}{10}$

26

For eksempel:

a) Det spises $\frac{1}{12}$ av en pizza. Av en annen maken pizza er det også spist $\frac{1}{12}$. Hvor mye pizza er det til sammen igjen?b) Mia har to hele pizzaer. Jon og Kaja kommer med $\frac{1}{12}$ av hver sin maken pizza. Hvor mye pizza har de i alt?**27**

a) $\frac{5}{8}$

b) $\frac{4}{8} = \frac{1}{2}$

28

a) $2\frac{3}{4}$ liter

b) Nei

$2\frac{3}{4}$ liter + $1\frac{3}{4}$ liter = $4\frac{1}{2}$ liter

29

a) $\frac{8}{15}$ liter

b) $\frac{7}{15}$ liter

c) $\frac{29}{30}$ liter

30

$1\frac{1}{10}$ liter

31

$\frac{3}{5}$

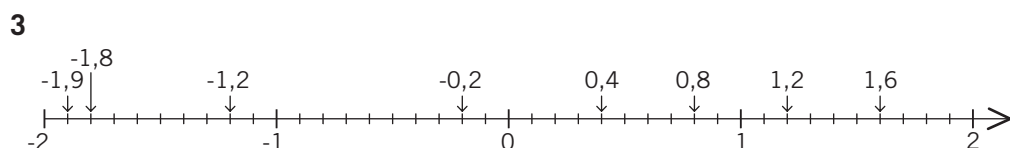
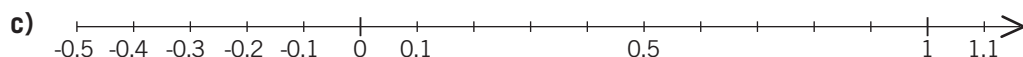
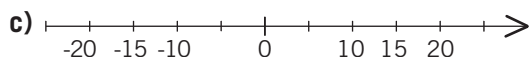
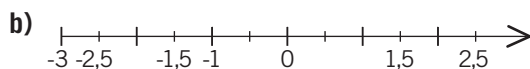
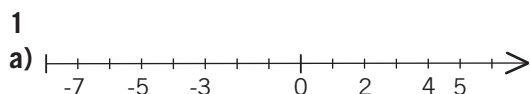
$1\frac{1}{5}$

$\frac{8}{5}$

$2\frac{1}{5}$

$\frac{14}{5}$

Kapittel 2 Tall og tallforståelse s. 12

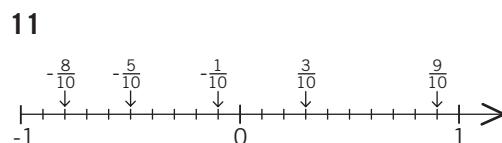
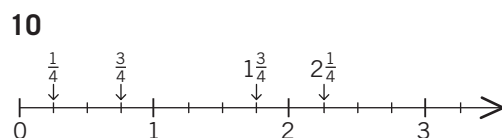
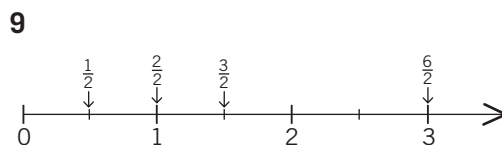
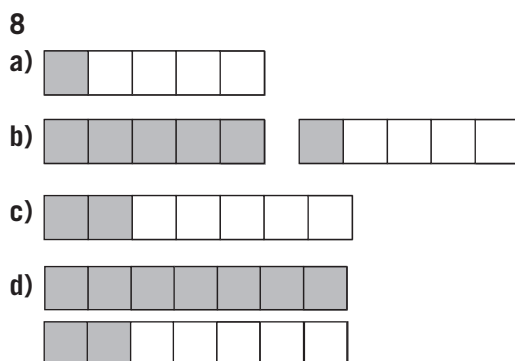
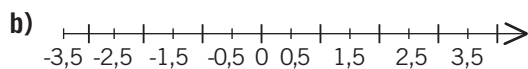
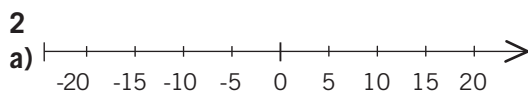


- 4
- a) 12 315 og 10 001
- b) -101 og -1217
- c) 0,7 og 0,99
- d) -1,007 og -1,09
- e) 5
- f) 4,91

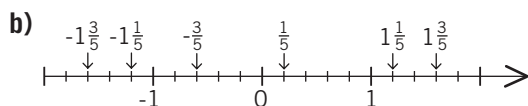
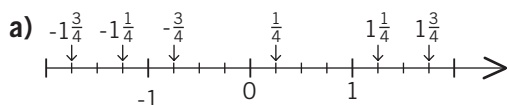
- 5
- a) $-9 < -7$
- b) $-3 > -4$
- c) $0 > -8$
- d) $-100 > -101$

- 6
- a) $-34 > -97$
- b) $-2005 < -200$
- c) $-1 < 0$
- d) $0 > -18$

- 7
- a) $\frac{1}{2}$ c) $\frac{3}{4}$ e) $\frac{11}{16}$
- b) $\frac{5}{8}$ d) $\frac{2}{7}$ f) $\frac{5}{8}$



12



13

a) $-\frac{5}{2} < 0$

c) $\frac{5}{2} > 1$

b) $-\frac{7}{6} > -1$

d) $\frac{5}{2} > \frac{7}{6}$

14

a) 34 5 487

b) 34 -8 5 487

c) -8 -3,4 $-\frac{5}{9}$

d) 2,9 -3,4 $-\frac{5}{9}$

15

a) $-20 \text{ og } -6247$

b) $-81,4$

c) $\frac{3}{17}$

d) -6247

16

a) $-1 > -\frac{5}{2}$

b) $-\frac{1}{5} < -\frac{1}{6}$

c) $-\frac{8}{114} > -\frac{1}{2}$

d) $-\frac{6}{10} > -\frac{7}{10}$

17

a) $472 = 4 \cdot 100 + 7 \cdot 10 + 2 \cdot 1$

b) $81 = 8 \cdot 10 + 1 \cdot 1$

c) $407 = 4 \cdot 100 + 0 \cdot 10 + 7 \cdot 1$

d) $430 = 4 \cdot 100 + 3 \cdot 10 + 0 \cdot 1$

18

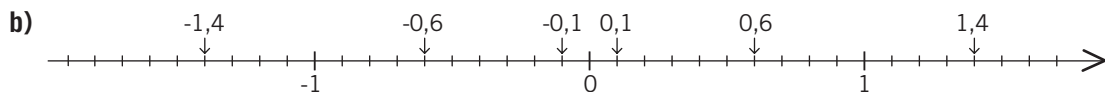
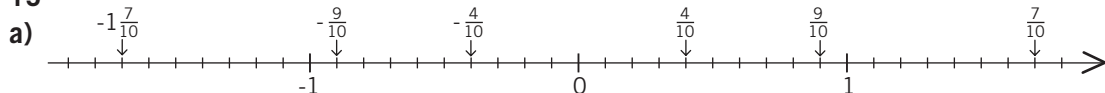
a) $6,3 = 6 \cdot 1 + 3 \cdot 0,1$

b) $13,2 = 1 \cdot 10 + 3 \cdot 1 + 2 \cdot 0,1$

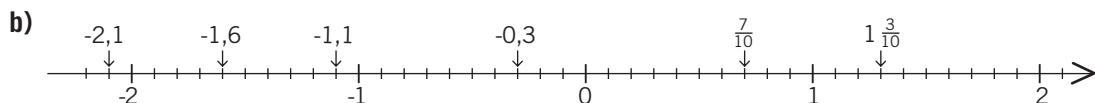
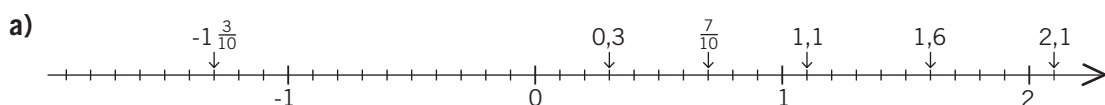
c) $4,86 = 4 \cdot 1 + 8 \cdot 0,1 + 6 \cdot 0,01$

d) $25,94 = 2 \cdot 10 + 5 \cdot 1 + 9 \cdot 0,1 + 4 \cdot 0,01$

19



20



21

a) $638 = 6 \cdot 100 + 3 \cdot 10 + 8 \cdot 1$

b) $507 = 5 \cdot 100 + 0 \cdot 10 + 7 \cdot 1$

c) $306 = 3 \cdot 100 + 0 \cdot 10 + 6 \cdot 1$

22

a) $3709 = 3 \cdot 1000 + 7 \cdot 100 + 0 \cdot 10 + 9 \cdot 1$

b) $4003 = 4 \cdot 1000 + 0 \cdot 100 + 0 \cdot 10 + 3 \cdot 1$

c) $30\,401 = 3 \cdot 10\,000 + 0 \cdot 1000$
 $+ 4 \cdot 100 + 0 \cdot 10 + 1 \cdot 1$

23

a) Fem

b) Sju

c) Tre

d) Ni

e) To

f) $532,97 = 5 \cdot 100 + 3 \cdot 10 + 2 \cdot 1$
 $+ 9 \cdot 0,1 + 7 \cdot 0,01$

24

a) $0,1 \left(\frac{1}{10}\right)$

b) 10

c) $0,001 \left(\frac{1}{1000}\right)$

d) $0,01 \left(\frac{1}{100}\right)$

e) 1

25

58,734

26

7 og 13

Har bare faktorene 1 og seg selv.

27

27 4 9 189 15
 Har andre faktorer enn 1 og seg selv.

28

64 25 32 81

Har andre faktorer enn 1 og seg selv.

29

Alle faktorene er primtall.

30

a) $12 = 2 \cdot 2 \cdot 3$

b) $16 = 2 \cdot 2 \cdot 2 \cdot 2$

c) $32 = 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2$

d) $24 = 2 \cdot 2 \cdot 2 \cdot 3$

e) $48 = 2 \cdot 2 \cdot 2 \cdot 2 \cdot 3$

f) $100 = 2 \cdot 2 \cdot 5 \cdot 5$

31

a) Nei, 36 er ikke primtall.

b) Nei, 4 og 18 er ikke primtall.

c) Nei, 9 er ikke primtall.

d) Ja, både 2 og 3 er primtall.

32

a) $-4 + 2 > -4 - 2$

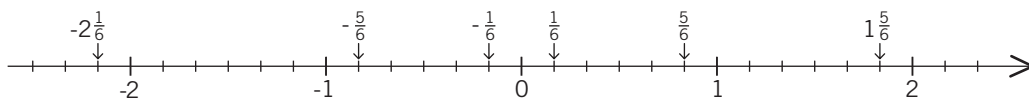
b) $10 - 14 > -2 - 3$

c) $6 - 9 < -3 + 5 - 1$

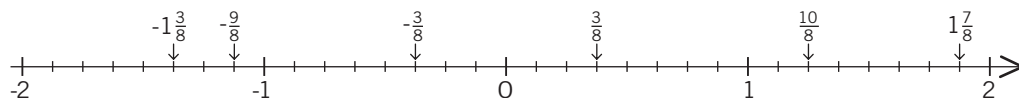
d) $-3 - 7 < -2 - 4$

33

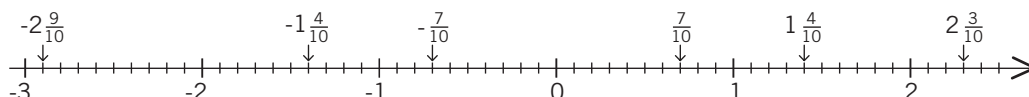
a)



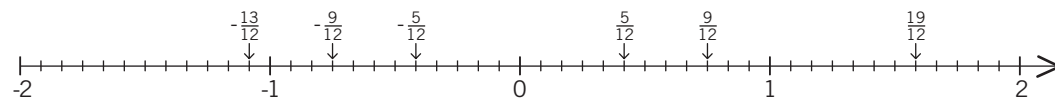
b)



c)



d)



34

- a) Tre hundre og åtte tusen fire hundre og sekstisju
 b) 30 048
 c) 30 148

35

- a) Partall
 b) Oddetall
 c) Partall
 d) Oddetall

36

- a) $144 = 2 \cdot 2 \cdot 2 \cdot 2 \cdot 3 \cdot 3$
 b) $300 = 2 \cdot 2 \cdot 3 \cdot 5 \cdot 5$
 c) $196 = 2 \cdot 2 \cdot 7 \cdot 7$

37

- a) $2 \cdot 2 = 4$
 b) $2 \cdot 7 = 14$
 c) $2 \cdot 12 = 2 \cdot 2 \cdot 6 = 2 \cdot 2 \cdot 2 \cdot 3$
 $= 3 \cdot 2 \cdot 4 = 3 \cdot 8 = 4 \cdot 6 = 4 \cdot 2 \cdot 3 = 24$
 d) $2 \cdot 14 = 2 \cdot 2 \cdot 7 = 4 \cdot 7 = 28$

38

- a) 5
 b) 2, 4, 8 eller 16
 c) 2, 4, 8, 16 eller 32
 d) 3, 9 eller 27

39

- $6 \cdot 6 + 6 \cdot 6 + 3 \cdot 14 = 114$
 $2 \cdot 6 \cdot 6 + 3 \cdot 14 = 114$
 $9 \cdot 14 - 6 \cdot 2 = 114$

40

- 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47

41

Halvparten

42

Uendelig mange

43

- a) $\frac{11}{60}$ b) $\frac{3}{10}$

44

- a) 0,71 b) 0,78 c) 0,717 d) 7,01

45

- a) -0,9 b) -1 c) -0,91 d) 0

46

- a) -0,99 b) -1,09 c) -1 d) -0,09

47

Tall	Faktorer
2	1, 2
3	1, 3
4	1, 2, 4
5	1, 5
6	1, 2, 3, 6
7	1, 7
8	1, 2, 4, 8
9	1, 3, 9
10	1, 2, 5, 10
11	1, 11
12	1, 2, 3, 4, 6, 12
13	1, 13
14	1, 2, 7, 14
15	1, 3, 5, 15
16	1, 2, 4, 8, 16
17	1, 17
18	1, 2, 3, 6, 9, 18
19	1, 19
20	1, 2, 4, 5, 10, 20

48

- a) 2, 3, 4, 5, 7, 8, 9, 10, 11, 13, 14, 15, 16, 17, 19
 b) 12, 18
 c) 6

Litt av hvert s. 22**1**

- a) 711 c) 360,91
 b) 8636 d) 5,82

2

- a) 36 c) 54 e) 42
 b) 56 d) 32 f) 24

3

- a) 234 b) 1155 c) 2422

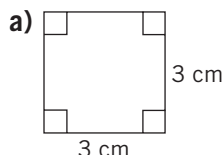
4

- a) 4 c) 8 e) 5
b) 3 d) 8 f) 10

5

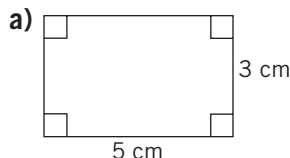
- a) 15 b) 16 c) 23

6



- b) Alle sidene er like lange.
Alle vinklene er 90° .
Diagonalene er like lange, står vinkelrett på hverandre og halverer hverandre og vinklene.
- c) 12 cm
d) 9 cm^2

7



- b) Alle vinkel er 90° . Motstående sider er parallelle og like lange. Diagonalene er like lange og halverer hverandre.
- c) 16 cm
d) 15 cm^2

8

- a) $3 \text{ m} = 30 \text{ dm} = 300 \text{ cm}$
b) $4,9 \text{ m} = 49 \text{ dm} = 490 \text{ cm}$
c) $1,94 \text{ m} = 19,4 \text{ dm} = 194 \text{ cm}$
d) $2,13 \text{ m} = 21,3 \text{ dm} = 213 \text{ cm}$

9

8,7 km

10

Seks og ni tideler

11

- a) 4,7 c) 10 (10,0)
b) 41 (41,0) d) 1 (1,0)

12

- a) 2,9 b) 39,9 c) 9,81 d) 0,09

13

- a) 4,31 c) 10,26
b) 72,02 d) 3 (3,00)

14

- a) 7,676 c) 7,189
b) 3,990 d) 0,180

15

- a) 52 kr b) 111 kr c) 186 kr

16

- a) 7,905 kg b) 185 kr c) 43 kr

Kapittel 3 Multiplikasjon s. 25

1

- a) 80 c) 450 e) 630
b) 210 d) 180 f) 560

2

- a) 2700 c) 3200 e) 12 000
b) 3500 d) 2000 f) 42 000

3

- a) 360 cm c) 80 kr
b) 72 kr d) 40 cm

4

- a) 384 c) 1440
b) 1134 d) 5628

5

- a) 360 b) 540 c) 900

6

- a) 5415 b) 12 236 c) 9253 d) 9690

7

- a) 2784 b) 216

8

- a) 5850 kr b) 1040 kr c) 6890 kr

9

- a) 34,6 c) 123,2 e) 9240
b) 863 d) 539 f) 480

10

- a) 8,46 c) 846 e) 48,9
b) 84,6 d) 489 f) 4,89

11

- a) $3,57 \cdot 10 = 35,7$
b) $35,7 \cdot 10 = 357$
c) $0,357 \cdot 10 = 3,57$
d) $0,463 \cdot 100 = 46,3$
e) $8,9 \cdot 10 = 89$
f) $36 \cdot 10 = 360$

12

- a) $36 \cdot 10 = 360$
b) $3,5 \cdot 100 = 350$
c) $27 \cdot 100 = 2700$
d) $40 \cdot 100 = 4000$

13

- a) 250 kr c) 2100
b) 10 500 kr d) 300

14

- a) 9 c) 900 e) 32
b) 90 d) 3,2 f) 320

15

- a) $8,94 \cdot 10 = 89,4$
b) $0,894 \cdot 100 = 89,4$
c) $0,0894 \cdot 1000 = 89,4$
d) $0,86 \cdot 10 = 8,6$
e) $0,86 \cdot 100 = 86$
f) $0,86 \cdot 1000 = 860$

16

- a) $20 \cdot 20 = 400$

b) $300 \cdot 30 = 9000$

c) $2,5 \cdot 3000 = 7500$

d) $42 \cdot 200 = 8400$

17

- a) 240 b) 45 c) 500 d) 1200

18

- a) 3827 c) 3528
b) 2176 d) 8084

19

- a) 10 634 c) 25 578
b) 9126 d) 22 625

20

- a) 520 km b) 468 km c) 52 km

21

4506 kr

22

- a) 20 286 c) 38 304 e) 6720
b) 38 052 d) 29 638 f) 24 600

23

- a) 3,0 c) 22,2 e) 26,67
b) 3,2 d) 30,90 f) 4,2

24

- a) 32,610 c) 156,078
b) 197,964 d) 246,369

25

- a) To
b) En
c) Tre
24,581

26

108,1

27

- a) 305,55 kr b) 51 kr

28

2010 kr

29

44,50 kr (44,55 kr)

30

4 (Kaja + 3)

31

a) 8684 kr b) 83,50 kr

32

a) 4992 kr
b) 3993,50 kr
 (3993,60 kr)
c) 3766 kr

33

a) 32,93 b) 34,50 c) 78,02 d) 39,33

34

a) 300,72 c) 43,316
b) 284,05 d) 29,055

35

a) 21 547 kr
b) 700 kr
c) De tjente 3347 kr.

36

a) 14,04 m² b) 27 m

37

a) 4110 kr c) Tap 210 kr
b) 3900 kr

38

4784 kr

39

19 375 liter

40

30 cm

41

a) 132
b) 5423

c) 1243

d) $532 : 4 = 133$

42

a) $43 \cdot 15 = 645$
b) $24 \cdot 5 = 120$
c) $13 \cdot 8 = 104$
d) $17 \cdot 13 = 221$
e) $28 \cdot 27 = 756$

43

a) $3367 \cdot 33 = 111111$
b) $3367 \cdot 66 = 222222$
c) $3367 \cdot 99 = 333333$
d) $3367 \cdot 132 = 444444$
e) $3367 \cdot 165 = 555555$
f) $3367 \cdot 198 = 666666$
g) $3367 \cdot 231 = 777777$
h) $3367 \cdot 264 = 888888$
i) $3367 \cdot 297 = 999999$

44

Differansen er alltid 28.

Litt av hvert s. 37

1

a) $\frac{28}{100} = \frac{7}{25}$ b) $\frac{60}{100} = \frac{3}{5}$ c) $\frac{12}{100} = \frac{3}{25}$

2

$\frac{28}{100} = 28\%$ $\frac{60}{100} = 60\%$ $\frac{12}{100} = 12\%$

3

a) 4 % c) 75 % e) 40 %
b) 18 % d) 50 % f) 90 %

4

a) 377 b) 205 c) 552 d) 896

5

a) 4380 c) 14 688
b) 10 545

6

a) 34 b) 50 c) 33,4 d) 25

7

- a) 59 b) 66 c) 8 d) 18

8

- a) 168,4 m c) 20,58 liter
b) 4,3 kg d) 49,632 tonn

9

- a) 13 b) 17 c) 26 d) 34

10

- a) 1000 g c) 4300 g
b) 600 g d) 320 g

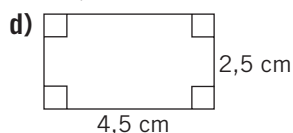
11

- a) 3000 m d) 0,6 m
b) 20 000 m e) 0,5 m
c) 6 m f) 0,54 m

12

- a) Rektangel
b) Sider: 9 cm og 2,5 m
 $O = 23 \text{ cm}$

- c) $22,5 \text{ cm}^2$



- e) 14 cm

13

- a) 6 t og 5 min
b) 50 min
c) 13 t

14

- a) Kl. 08.28 eller 20.28
b) Kl. 09.08 eller 21.08
c) Kl. 05.54 eller 17.54
d) Kl. 06.20 eller 18.20

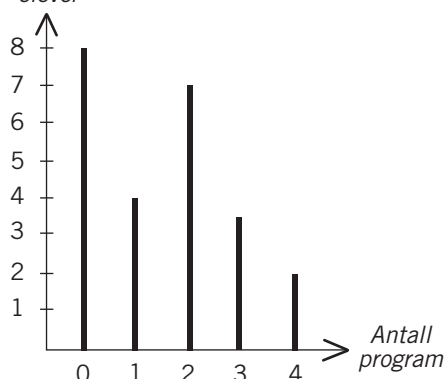
15

- a) 24

b)

Antall programmer	Frekvens (antall elever)
0	8
1	4
2	7
3	3
4	2
Sum	24

- c) *Antall elever*



- d) 1,5 programmer
e) 1,46 programmer
f) 0 programmer

Kapittel 4 Divisjon 1 s. 40

1

30 kr

2

15

3

- a) 46 kr b) 38 kr

4

- a) 3,8 b) 9,4 c) 38,2 d) 40,6

5

- a) 3,65 c) 48,37
b) 7,84 d) 20,08

14

a) $-2\frac{1}{4}, -\frac{7}{4}, -1\frac{1}{4}, -\frac{3}{4}, \frac{1}{4}, \frac{10}{4}$

b) $-\frac{8}{10}, -\frac{1}{10}, \frac{7}{10}, 1\frac{1}{10}, \frac{13}{10}, \frac{26}{10}$

15

De utgjør like store deler av et hele.

16

For eksempel:

a) $\frac{1}{3} = \frac{5}{15}$ c) $\frac{1}{5} = \frac{2}{10}$ e) $\frac{3}{4} = \frac{6}{8}$

b) $\frac{1}{4} = \frac{3}{12}$ d) $\frac{2}{3} = \frac{8}{12}$ f) $\frac{2}{5} = \frac{6}{15}$

17

a) $\frac{1}{3} = \frac{2}{6}$ c) $\frac{2}{3} = \frac{4}{6}$ e) $\frac{3}{2} = \frac{9}{6}$

b) $\frac{1}{2} = \frac{3}{6}$ d) $\frac{4}{3} = \frac{8}{6}$ f) $\frac{5}{12} = \frac{15}{6}$

18

a) $\frac{1}{4} = \frac{4}{16}$ c) $\frac{2}{8} = \frac{4}{16}$ e) $\frac{3}{2} = \frac{24}{16}$

b) $\frac{1}{2} = \frac{8}{16}$ d) $\frac{3}{8} = \frac{6}{16}$ f) $\frac{3}{4} = \frac{12}{16}$

19

a) $\frac{1}{3} = \frac{5}{15}$ c) $\frac{2}{3} = \frac{10}{15}$ e) $\frac{7}{5} = \frac{21}{15}$

b) $\frac{1}{5} = \frac{3}{15}$ d) $\frac{1}{5} = \frac{12}{15}$ f) $\frac{8}{3} = \frac{40}{15}$

20

a) $\frac{5}{3} = 1\frac{2}{3}$ b) $\frac{7}{6} = 1\frac{1}{6}$ c) $\frac{9}{4} = 2\frac{1}{4}$ d) $\frac{7}{8}$

21

a) $\frac{5}{5} = 1$

b) $\frac{7}{10}$

c) $\frac{15}{10} = \frac{3}{2} = 1\frac{1}{2}$

d) $\frac{20}{10} = 2$

22

a) $\frac{25}{20} = \frac{5}{4} = 1\frac{1}{4}$

b) $\frac{17}{20}$

c) $\frac{8}{12} = \frac{2}{3}$

d) $\frac{28}{12} = \frac{7}{3} = 2\frac{1}{3}$

23

a) $\frac{9}{14}$

b) $\frac{3}{14}$

c) $\frac{1}{15}$

d) 0

24

a) $\frac{9}{6} = \frac{3}{2} = 1\frac{1}{2}$

c) $\frac{1}{12}$

b) $\frac{7}{4} = 1\frac{3}{4}$

d) $\frac{2}{15}$

25

a) $\frac{5}{6}$

c) $\frac{11}{10} = 1\frac{1}{10}$

e) $\frac{15}{8} = 1\frac{7}{8}$

b) $\frac{7}{6} = 1\frac{1}{6}$

d) $\frac{9}{10}$

f) $2\frac{1}{10} = \frac{21}{10} = 2\frac{1}{10}$

26

For eksempel:

a) Det spises $\frac{1}{12}$ av en pizza. Av en annen maken pizza er det også spist $\frac{1}{12}$. Hvor mye pizza er det til sammen igjen?b) Mia har to hele pizzaer. Jon og Kaja kommer med $\frac{1}{12}$ av hver sin maken pizza. Hvor mye pizza har de i alt?**27**

a) $\frac{5}{8}$

b) $\frac{4}{8} = \frac{1}{2}$

28

a) $2\frac{3}{4}$ liter

b) Nei

$2\frac{3}{4}$ liter + $1\frac{3}{4}$ liter = $4\frac{1}{2}$ liter

29

a) $\frac{8}{15}$ liter

b) $\frac{7}{15}$ liter

c) $\frac{29}{30}$ liter

30

$1\frac{1}{10}$ liter

31

$\frac{3}{5}$

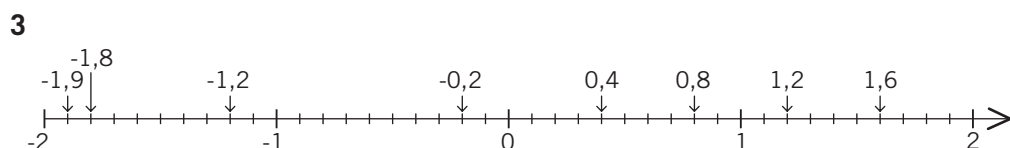
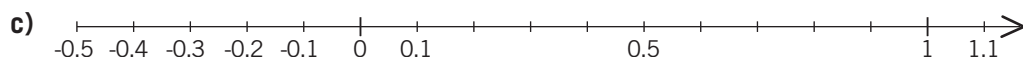
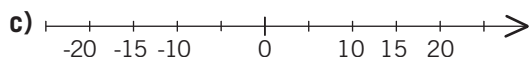
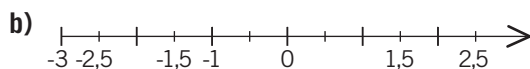
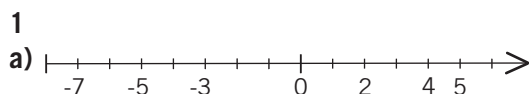
$1\frac{1}{5}$

$\frac{8}{5}$

$2\frac{1}{5}$

$\frac{14}{5}$

Kapittel 2 Tall og tallforståelse s. 12

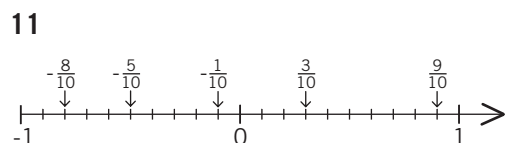
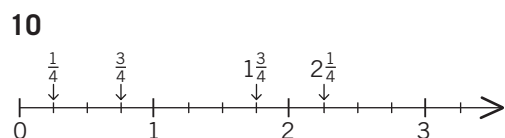
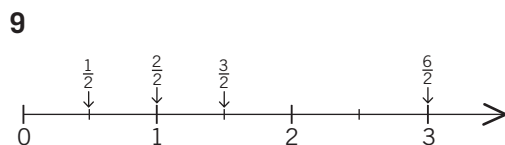
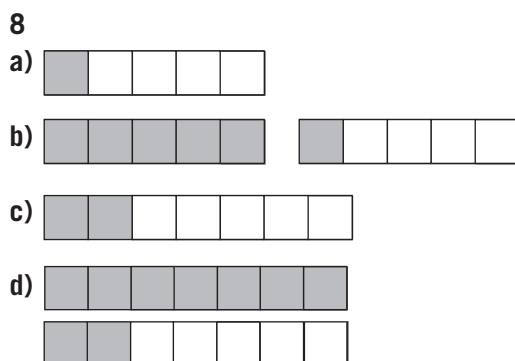
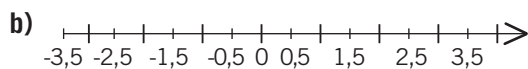
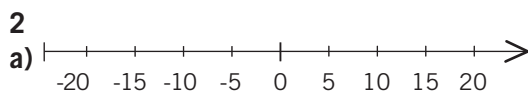


- 4
- a) 12 315 og 10 001
- b) -101 og -1217
- c) 0,7 og 0,99
- d) -1,007 og -1,09
- e) 5
- f) 4,91

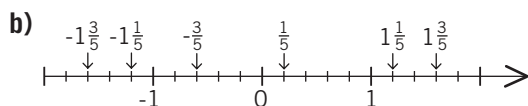
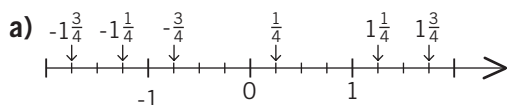
- 5
- a) $-9 < -7$
- b) $-3 > -4$
- c) $0 > -8$
- d) $-100 > -101$

- 6
- a) $-34 > -97$
- b) $-2005 < -200$
- c) $-1 < 0$
- d) $0 > -18$

- 7
- a) $\frac{1}{2}$ c) $\frac{3}{4}$ e) $\frac{11}{16}$
- b) $\frac{5}{8}$ d) $\frac{2}{7}$ f) $\frac{5}{8}$



12



13

a) $-\frac{5}{2} < 0$

c) $\frac{5}{2} > 1$

b) $-\frac{7}{6} > -1$

d) $\frac{5}{2} > \frac{7}{6}$

14

a) 34 5 487

b) 34 -8 5 487

c) -8 -3,4 $-\frac{5}{9}$

d) 2,9 -3,4 $-\frac{5}{9}$

15

a) $-20 \text{ og } -6247$

b) $-81,4$

c) $\frac{3}{17}$

d) -6247

16

a) $-1 > -\frac{5}{2}$

b) $-\frac{1}{5} < -\frac{1}{6}$

c) $-\frac{8}{114} > -\frac{1}{2}$

d) $-\frac{6}{10} > -\frac{7}{10}$

17

a) $472 = 4 \cdot 100 + 7 \cdot 10 + 2 \cdot 1$

b) $81 = 8 \cdot 10 + 1 \cdot 1$

c) $407 = 4 \cdot 100 + 0 \cdot 10 + 7 \cdot 1$

d) $430 = 4 \cdot 100 + 3 \cdot 10 + 0 \cdot 1$

18

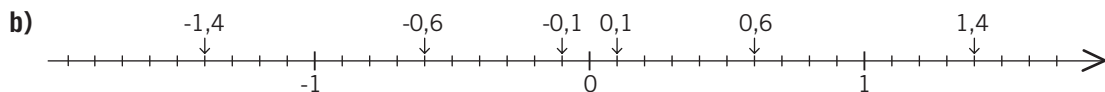
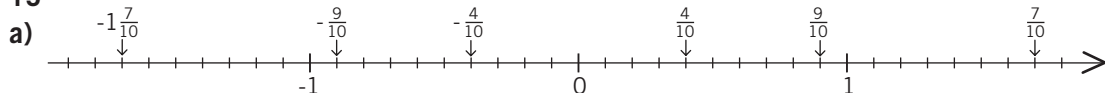
a) $6,3 = 6 \cdot 1 + 3 \cdot 0,1$

b) $13,2 = 1 \cdot 10 + 3 \cdot 1 + 2 \cdot 0,1$

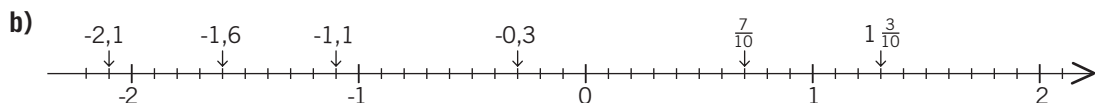
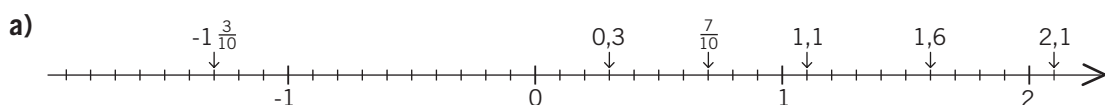
c) $4,86 = 4 \cdot 1 + 8 \cdot 0,1 + 6 \cdot 0,01$

d) $25,94 = 2 \cdot 10 + 5 \cdot 1 + 9 \cdot 0,1 + 4 \cdot 0,01$

19



20



21

a) $638 = 6 \cdot 100 + 3 \cdot 10 + 8 \cdot 1$

b) $507 = 5 \cdot 100 + 0 \cdot 10 + 7 \cdot 1$

c) $306 = 3 \cdot 100 + 0 \cdot 10 + 6 \cdot 1$

22

a) $3709 = 3 \cdot 1000 + 7 \cdot 100 + 0 \cdot 10 + 9 \cdot 1$

b) $4003 = 4 \cdot 1000 + 0 \cdot 100 + 0 \cdot 10 + 3 \cdot 1$

c) $30\,401 = 3 \cdot 10\,000 + 0 \cdot 1000$
 $+ 4 \cdot 100 + 0 \cdot 10 + 1 \cdot 1$

23

a) Fem

b) Sju

c) Tre

d) Ni

e) To

f) $532,97 = 5 \cdot 100 + 3 \cdot 10 + 2 \cdot 1$
 $+ 9 \cdot 0,1 + 7 \cdot 0,01$

24

a) $0,1 \left(\frac{1}{10}\right)$

b) 10

c) $0,001 \left(\frac{1}{1000}\right)$

d) $0,01 \left(\frac{1}{100}\right)$

e) 1

25

58,734

26

7 og 13

Har bare faktorene 1 og seg selv.

27

27 4 9 189 15
 Har andre faktorer enn 1 og seg selv.

28

64 25 32 81

Har andre faktorer enn 1 og seg selv.

29

Alle faktorene er primtall.

30

a) $12 = 2 \cdot 2 \cdot 3$

b) $16 = 2 \cdot 2 \cdot 2 \cdot 2$

c) $32 = 2 \cdot 2 \cdot 2 \cdot 2 \cdot 2$

d) $24 = 2 \cdot 2 \cdot 2 \cdot 3$

e) $48 = 2 \cdot 2 \cdot 2 \cdot 2 \cdot 3$

f) $100 = 2 \cdot 2 \cdot 5 \cdot 5$

31

a) Nei, 36 er ikke primtall.

b) Nei, 4 og 18 er ikke primtall.

c) Nei, 9 er ikke primtall.

d) Ja, både 2 og 3 er primtall.

32

a) $-4 + 2 > -4 - 2$

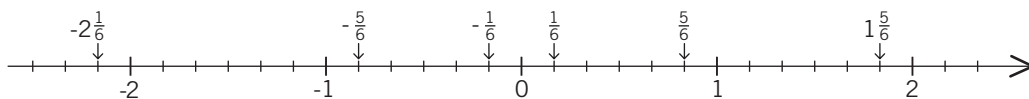
b) $10 - 14 > -2 - 3$

c) $6 - 9 < -3 + 5 - 1$

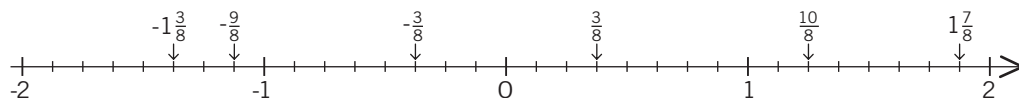
d) $-3 - 7 < -2 - 4$

33

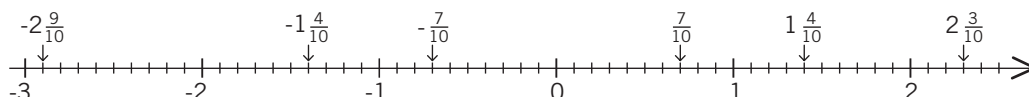
a)



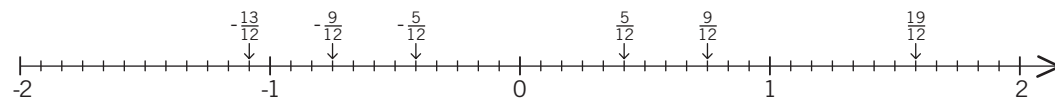
b)



c)



d)



34

- a) Tre hundre og åtte tusen fire hundre og sekstisju
 b) 30 048
 c) 30 148

35

- a) Partall c) Partall
 b) Oddetall d) Oddetall

36

- a) $144 = 2 \cdot 2 \cdot 2 \cdot 2 \cdot 3 \cdot 3$
 b) $300 = 2 \cdot 2 \cdot 3 \cdot 5 \cdot 5$
 c) $196 = 2 \cdot 2 \cdot 7 \cdot 7$

37

- a) $2 \cdot 2 = 4$
 b) $2 \cdot 7 = 14$
 c) $2 \cdot 12 = 2 \cdot 2 \cdot 6 = 2 \cdot 2 \cdot 2 \cdot 3$
 $= 3 \cdot 2 \cdot 4 = 3 \cdot 8 = 4 \cdot 6 = 4 \cdot 2 \cdot 3 = 24$
 d) $2 \cdot 14 = 2 \cdot 2 \cdot 7 = 4 \cdot 7 = 28$

38

- a) 5
 b) 2, 4, 8 eller 16
 c) 2, 4, 8, 16 eller 32
 d) 3, 9 eller 27

39

- $6 \cdot 6 + 6 \cdot 6 + 3 \cdot 14 = 114$
 $2 \cdot 6 \cdot 6 + 3 \cdot 14 = 114$
 $9 \cdot 14 - 6 \cdot 2 = 114$

40

- 2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47

41

Halvparten

42

Uendelig mange

43

- a) $\frac{11}{60}$ b) $\frac{3}{10}$

44

- a) 0,71 b) 0,78 c) 0,717 d) 7,01

45

- a) -0,9 b) -1 c) -0,91 d) 0

46

- a) -0,99 b) -1,09 c) -1 d) -0,09

47

Tall	Faktorer
2	1, 2
3	1, 3
4	1, 2, 4
5	1, 5
6	1, 2, 3, 6
7	1, 7
8	1, 2, 4, 8
9	1, 3, 9
10	1, 2, 5, 10
11	1, 11
12	1, 2, 3, 4, 6, 12
13	1, 13
14	1, 2, 7, 14
15	1, 3, 5, 15
16	1, 2, 4, 8, 16
17	1, 17
18	1, 2, 3, 6, 9, 18
19	1, 19
20	1, 2, 4, 5, 10, 20

48

- a) 2, 3, 4, 5, 7, 8, 9, 10, 11, 13, 14, 15, 16, 17, 19
 b) 12, 18
 c) 6

Litt av hvert s. 22**1**

- a) 711 c) 360,91
 b) 8636 d) 5,82

2

- a) 36 c) 54 e) 42
 b) 56 d) 32 f) 24

3

- a) 234 b) 1155 c) 2422

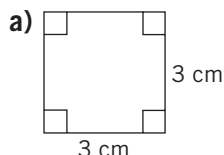
4

- a) 4 c) 8 e) 5
b) 3 d) 8 f) 10

5

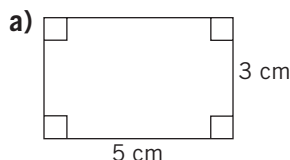
- a) 15 b) 16 c) 23

6



- b) Alle sidene er like lange.
Alle vinklene er 90° .
Diagonalene er like lange, står vinkelrett på hverandre og halverer hverandre og vinklene.
- c) 12 cm
d) 9 cm^2

7



- b) Alle vinkel er 90° . Motstående sider er parallelle og like lange. Diagonalene er like lange og halverer hverandre.
- c) 16 cm
d) 15 cm^2

8

- a) $3 \text{ m} = 30 \text{ dm} = 300 \text{ cm}$
b) $4,9 \text{ m} = 49 \text{ dm} = 490 \text{ cm}$
c) $1,94 \text{ m} = 19,4 \text{ dm} = 194 \text{ cm}$
d) $2,13 \text{ m} = 21,3 \text{ dm} = 213 \text{ cm}$

9

8,7 km

10

Seks og ni tideler

11

- a) 4,7 c) 10 (10,0)
b) 41 (41,0) d) 1 (1,0)

12

- a) 2,9 b) 39,9 c) 9,81 d) 0,09

13

- a) 4,31 c) 10,26
b) 72,02 d) 3 (3,00)

14

- a) 7,676 c) 7,189
b) 3,990 d) 0,180

15

- a) 52 kr b) 111 kr c) 186 kr

16

- a) 7,905 kg b) 185 kr c) 43 kr

Kapittel 3 Multiplikasjon s. 25

1

- a) 80 c) 450 e) 630
b) 210 d) 180 f) 560

2

- a) 2700 c) 3200 e) 12 000
b) 3500 d) 2000 f) 42 000

3

- a) 360 cm c) 80 kr
b) 72 kr d) 40 cm

4

- a) 384 c) 1440
b) 1134 d) 5628

5

- a) 360 b) 540 c) 900

6

- a) 5415 b) 12 236 c) 9253 d) 9690

7

- a) 2784 b) 216

8

- a) 5850 kr b) 1040 kr c) 6890 kr

9

- a) 34,6 c) 123,2 e) 9240
b) 863 d) 539 f) 480

10

- a) 8,46 c) 846 e) 48,9
b) 84,6 d) 489 f) 4,89

11

- a) $3,57 \cdot 10 = 35,7$
b) $35,7 \cdot 10 = 357$
c) $0,357 \cdot 10 = 3,57$
d) $0,463 \cdot 100 = 46,3$
e) $8,9 \cdot 10 = 89$
f) $36 \cdot 10 = 360$

12

- a) $36 \cdot 10 = 360$
b) $3,5 \cdot 100 = 350$
c) $27 \cdot 100 = 2700$
d) $40 \cdot 100 = 4000$

13

- a) 250 kr c) 2100
b) 10 500 kr d) 300

14

- a) 9 c) 900 e) 32
b) 90 d) 3,2 f) 320

15

- a) $8,94 \cdot 10 = 89,4$
b) $0,894 \cdot 100 = 89,4$
c) $0,0894 \cdot 1000 = 89,4$
d) $0,86 \cdot 10 = 8,6$
e) $0,86 \cdot 100 = 86$
f) $0,86 \cdot 1000 = 860$

16

- a) $20 \cdot 20 = 400$

- b) $300 \cdot 30 = 9000$

- c) $2,5 \cdot 3000 = 7500$

- d) $42 \cdot 200 = 8400$

17

- a) 240 b) 45 c) 500 d) 1200

18

- a) 3827 c) 3528
b) 2176 d) 8084

19

- a) 10 634 c) 25 578
b) 9126 d) 22 625

20

- a) 520 km b) 468 km c) 52 km

21

- 4506 kr

22

- a) 20 286 c) 38 304 e) 6720
b) 38 052 d) 29 638 f) 24 600

23

- a) 3,0 c) 22,2 e) 26,67
b) 3,2 d) 30,90 f) 4,2

24

- a) 32,610 c) 156,078
b) 197,964 d) 246,369

25

- a) To
b) En
c) Tre
24,581

26

- 108,1

27

- a) 305,55 kr b) 51 kr

28

- 2010 kr

29

44,50 kr (44,55 kr)

30

4 (Kaja + 3)

31

a) 8684 kr b) 83,50 kr

32

a) 4992 kr
b) 3993,50 kr
 (3993,60 kr)
c) 3766 kr

33

a) 32,93 b) 34,50 c) 78,02 d) 39,33

34

a) 300,72 c) 43,316
b) 284,05 d) 29,055

35

a) 21 547 kr
b) 700 kr
c) De tjente 3347 kr.

36

a) 14,04 m² b) 27 m

37

a) 4110 kr c) Tap 210 kr
b) 3900 kr

38

4784 kr

39

19 375 liter

40

30 cm

41

a) 132
b) 5423

c) 1243

d) $532 : 4 = 133$

42

a) $43 \cdot 15 = 645$
b) $24 \cdot 5 = 120$
c) $13 \cdot 8 = 104$
d) $17 \cdot 13 = 221$
e) $28 \cdot 27 = 756$

43

a) $3367 \cdot 33 = 111111$
b) $3367 \cdot 66 = 222222$
c) $3367 \cdot 99 = 333333$
d) $3367 \cdot 132 = 444444$
e) $3367 \cdot 165 = 555555$
f) $3367 \cdot 198 = 666666$
g) $3367 \cdot 231 = 777777$
h) $3367 \cdot 264 = 888888$
i) $3367 \cdot 297 = 999999$

44

Differansen er alltid 28.

Litt av hvert s. 37

1

a) $\frac{28}{100} = \frac{7}{25}$ b) $\frac{60}{100} = \frac{3}{5}$ c) $\frac{12}{100} = \frac{3}{25}$

2

$\frac{28}{100} = 28\%$ $\frac{60}{100} = 60\%$ $\frac{12}{100} = 12\%$

3

a) 4 % c) 75 % e) 40 %
b) 18 % d) 50 % f) 90 %

4

a) 377 b) 205 c) 552 d) 896

5

a) 4380 c) 14 688
b) 10 545

6

a) 34 b) 50 c) 33,4 d) 25

7

- a) 59 b) 66 c) 8 d) 18

8

- a) 168,4 m c) 20,58 liter
b) 4,3 kg d) 49,632 tonn

9

- a) 13 b) 17 c) 26 d) 34

10

- a) 1000 g c) 4300 g
b) 600 g d) 320 g

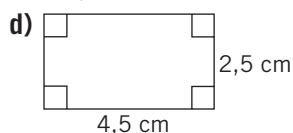
11

- a) 3000 m d) 0,6 m
b) 20 000 m e) 0,5 m
c) 6 m f) 0,54 m

12

- a) Rektangel
b) Sider: 9 cm og 2,5 m
 $O = 23 \text{ cm}$

- c) $22,5 \text{ cm}^2$



- e) 14 cm

13

- a) 6 t og 5 min
b) 50 min
c) 13 t

14

- a) Kl. 08.28 eller 20.28
b) Kl. 09.08 eller 21.08
c) Kl. 05.54 eller 17.54
d) Kl. 06.20 eller 18.20

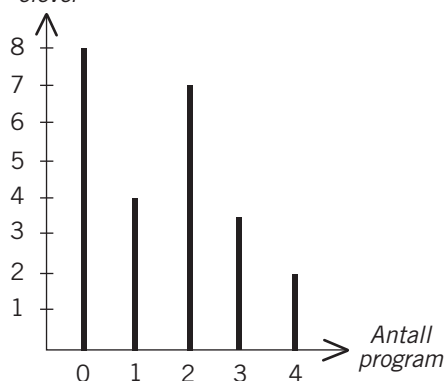
15

- a) 24

b)

Antall programmer	Frekvens (antall elever)
0	8
1	4
2	7
3	3
4	2
Sum	24

- c) *Antall elever*



- d) 1,5 programmer
e) 1,46 programmer
f) 0 programmer

Kapittel 4 Divisjon 1 s. 40

1

30 kr

2

15

3

- a) 46 kr b) 38 kr

4

- a) 3,8 b) 9,4 c) 38,2 d) 40,6

5

- a) 3,65 c) 48,37
b) 7,84 d) 20,08