

Skygni 5

Svarlisti til næmingabókina

1 Geometri

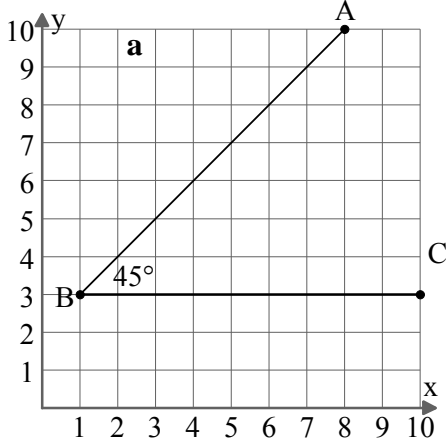
101 $\angle C$, $\angle D$, $\angle A$, $\angle F$, $\angle E$ og $\angle B$

102 a $\angle C$ og $\angle D$ b $\angle A$ c $\angle B$, $\angle E$ og $\angle F$

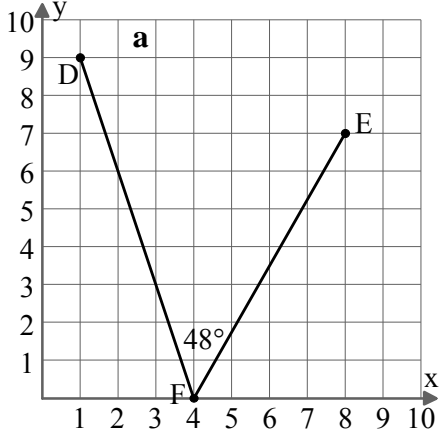
103 90°

104 $\angle A = 80^\circ$ $\angle B = 50^\circ$ $\angle C = 60^\circ$ $\angle D = 130^\circ$

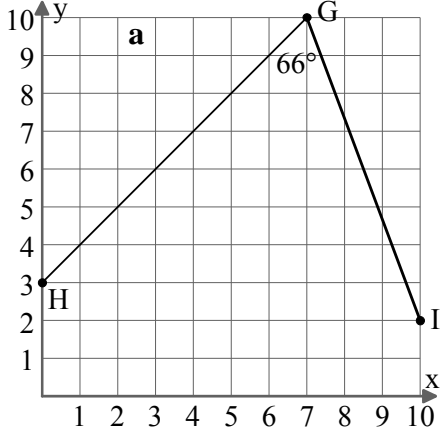
105 a  b $\angle B$



106 a  b $\angle F$



107 a  b $\angle G$



108 a $\angle D = 90^\circ$ $\angle E = 60^\circ$ $\angle F = 30^\circ$

- b** Vinkulsamløgan er 180°
- 109** Óendaliga nógvar loysnir
- 110** Tað ber ikki til at tekna tríkantin
- 111** **a** $\angle A = 90^\circ$ $\angle B = 110^\circ$ $\angle C = 60^\circ$ $\angle D = 100^\circ$
 $\angle E = 85^\circ$ $\angle F = 75^\circ$ $\angle G = 90^\circ$ $\angle H = 110^\circ$
 $\angle I = 88^\circ$ $\angle J = 94^\circ$ $\angle K = 60^\circ$ $\angle L = 118^\circ$
- b** Vinkulsamløgan í øllum trimum fýrkantunum er 360° .
- c** $\angle A$ ella $\angle BAD$ $\angle B$ ella $\angle ABC$ $\angle C$ ella $\angle BCD$ $\angle D$ ella $\angle ADC$
- 112** **a** --- **b** Óendaliga nógvar loysnir **c** --- **d** 360°
- 113** **a** --- **b** Óendaliga nógvar loysnir **c** 90° **d** 360°
- 114** **a** 90 cm^2 **b** 108 cm^2 **c** 200 cm^2
- 115** **a** 11 cm **b** 8 cm **c** 12 cm
- 116** 364 m^2
- 117** $100 \text{ cm} \cdot 100 \text{ cm} = 10\,000 \text{ cm}^2$
- 118** 162 m^2
- 119** **a** 968 m^2 **b** 684 m^2
- 120** $30,25 \text{ m}^2$
- 121** 135 m^2
- 122** $\Delta ABC = 8 \text{ cm}^2$ $\Delta DEF = 7,5 \text{ cm}^2$ $\Delta GHI = 8 \text{ cm}^2$
- 123** $\Delta JKL = 13,5 \text{ cm}^2$ $\Delta MNO = 6 \text{ cm}^2$ $\Delta PRS = 4,5 \text{ cm}^2$
- 124** $\Delta STU = 204 \text{ m}^2$ $\Delta VXY = 108 \text{ cm}^2$ $\Delta EFG = 350 \text{ m}^2$
- 125** $V = 600 \text{ m}^2$
- 126** **a** 225 m^2 **b** 50 m^2 **c** 120 cm^2
- 127** $x = 7 \text{ cm}$
- 128** $x = 8 \text{ cm}$
- 129** ---
- 130** ---
- 131** **a** --- **b** 15 cm
- 132** **a** --- **b** ---
- 133** a, c og d
- 134** **a** 2 cm 6 cm 4 cm

- b** 1 cm 3 cm 2 cm
- 135** 3,14 3,14 3,14
- 136** **a** 24,8 cm **b** 62 cm **c** 6,2 m **d** 4,65 m
- 137** 232,5 cm ($\approx 2,33$ m)
- 138** **a** 86,8 cm **b** 46,5 cm **c** 55,8 m **d** 21,08 m
- 139** Í minsta lagi 24,8 metrar
- 140** **a** 90° **b** 4 **c** $360^\circ (4 \cdot 90^\circ)$
- 141** $120^\circ (360^\circ : 3)$
- 142** **a og b** 1 $120^\circ = \frac{1}{3}$ 2 $60^\circ = \frac{1}{6}$ 3 $30^\circ = \frac{1}{12}$ 4 $60^\circ = \frac{1}{6}$ 5 $90^\circ = \frac{1}{4}$
- 143** **a** 60° **b** 6 stykki
- 144** **a** $x = 10$ **b** $x = 8$ **c** $x = 3$ **d** $x = 7$ **e** $x = 9$ **f** $x = 6$
- 145** **a** --- **b** --- **c** $B_1 = (2,1)$ $C_1 = (6,2)$
- 146** **a** 49 **b** 156 **c** 112 **d** 56 **e** 207 **f** 81
- 147** 92,25 kr
- 148** **a** 192 cm^2 **b** 272 cm^2 **c** 424 cm^2 **d** 40 cm^2 **e** 232 cm^2 **f** 464 cm^2
- 149** **a** 6 **b** 2 **c** 20 **d** 12 **e** 9 **f** 7
- 150** **a** 12 **b** 16 **c** 6 **d** 8 **e** 2 **f** 5
g 6 **h** 75 **i** 100 **j** 50 **k** 12 **l** 32
- 151** **a** 91,8 **b** 37,2 **c** 86 **d** 75,6 **e** 72,1
f 90,9 **g** 130,8 **h** 330,4 **i** 137,6 **j** 58,8
- 152** **a** 10,32 **b** 20,99 **c** 50,79 **d** 120,69 **e** 199,35
f 51,08 **g** 69,56 **h** 79,71 **i** 153,99 **j** 54,09
- 153** **a** 222 – 223 – 226 – 232 – 233 – 236 – 262 – 263 – 266
322 – 323 – 326 – 332 – 333 – 336 – 362 – 363 – 366
622 – 623 – 626 – 632 – 633 – 636 – 662 – 663 – 666
b $3 \cdot 3 \cdot 3 = 27$ ymisk trístava töl:
- 154** **a** 333 – 335 – 338 – 353 – 355 – 358 – 383 – 385 – 388
533 – 535 – 538 – 553 – 555 – 558 – 583 – 585 – 588
833 – 835 – 838 – 853 – 855 – 858 – 883 – 885 – 888
b $3 \cdot 3 \cdot 3 = 27$ ymisk trístava töl:
- 155** **a** 200 – 202 – 204 – 220 – 222 – 224 – 240 – 242 – 244
400 – 402 – 404 – 420 – 422 – 424 – 440 – 442 – 444
b $2 \cdot 3 \cdot 3 = 18$ ymisk trístava töl:
- 156** **a** Meiri enn 75 oyru (≈ 83 oyru) **b** ---

- 157** 42,50 kr
- 158** a $\angle A = 90^\circ$ $\angle B = 90^\circ$ $\angle C = 120^\circ$ $\angle D = 60^\circ$
b $\angle A$ og $\angle B$
- 159** a 45° b 27° c 137° d 90°
- 160** a --- b $\angle A = 90^\circ$ $\angle B = 30^\circ$ $\angle C = 60^\circ$
- 161** a -- b Víddin: 35 cm^2 c Ummálið: 24 cm
- 162** a 10 cm^2 b 6 cm^2 c 21 cm^2 d $3,42 \text{ cm}^2$
- 163** a 30° b ---
- 164** a 60° b 40° c 90° d 45°
- 165** a 20° b ---
- 166** a 36° b ---
- 167** $38,905 \text{ m} \approx 39 \text{ m}$
- 168** $948,6 \text{ cm} \approx 9,5 \text{ m}$
- 169** $1,05 \text{ m} = 105 \text{ cm}$
- 170** a $\angle A = 58^\circ$ $\angle B = 122^\circ$ $\angle C = 90^\circ$ $\angle D = 90^\circ$
b $\angle C$ og $\angle D$
- 171** ---
- 172** a --- b $V = 96 \text{ cm}^2$ c $U = 40 \text{ cm}$
- 173** a $V = 187,5 \text{ cm}^2$
b $\angle A = 65^\circ$ $\angle B = 80^\circ$ $\angle C = 35^\circ$
- 174** $\angle A = 65^\circ$ $\angle B = 135^\circ$ $\angle C = 90^\circ$ $\angle D = 85^\circ$
- 175** a --- b $AB = 8,6 \text{ cm}$ og $BC = 4,6 \text{ cm}$ c 180°
- 176** 180°
- 177** a 90° b 30° c 60° d 120°
- 178** 60°
- 179** a 30° b 90° c 120° d 180°
- 180** 18,7 m
- 181** a Í minsta lagi 93 flísar.

b Í minsta lagi 155 flísar.

182 **a** $U = 4,588 \text{ m}$ **b** $10,2 \text{ kg}$

2 Tema – Geometri uttandura

201 ---

202 ---

203 ---

204 a 1 máti b 90° c $V = s \cdot s$ d 36 m^2

205 a --- b 10 m c --- d --- e $2 \cdot r \cdot \pi$

206 a --- b --- c og d Spurningur c ber ekki til.

207 a --- b Rættvinklaður tríkantur c $\frac{3 \cdot 4}{2}$ d 6 m^2 e ---

3 Býting

- 301** a 189 b 59 c 112
d 89 e 123 f 59
g 208 h 178 i 64 j 118
- 302** a 48 b 72 c 69 d 48 e 87 f 86
- 303** a 86 b 35 c 73 d 63 e 92 f 72
- 304** a 1 b 7 c 10 d 11
- 305** a 9 b 8 c 9 d 8 e 15 f 9
- 306** 244 km um dagin
- 307** 46 pannukøkur hvør
- 308** a 3,65 b 0,85 c 37,2 d 20,8
e 51,32 f 46,3 g 7,95 h 132,25
- 309** a 23,7 b 52,7 c 22,1
d 45,8 e 21,5 f 32,4
g 15,3 h 23,1 i 18,8
- 310** 124,25 kr hvør
- 311** a ja b ja c nei d ja
e nei f nei g ja h ja
- 312** a 44 b 9 c 6 d 3 e -1 f -22
- 313** a 14 b 18 c 40 d 12
- 314** a 7 b 5
c 4 d 3
e 6 f 9
g 24 h 35
i 56 j 36

4 Tema – Gandað kvadrat

401 a

4	9	2
3	5	7
8	1	6

 b Ja

402 a

8	1	6
3	5	7
4	9	2

 b 15
c Töluni eru tey somu, men ovasta rað og niðasta rað eru skiftum

403 a

16	2	12
6	10	14
8	18	4

 b 30

404 a

24	3	18
9	15	21
12	27	6

 b 45

405 ---

406 a

17	24	1	8	15
23	5	7	14	16
4	6	13	20	22
10	12	19	21	3
11	18	25	2	9

 b 65

407 ---

408 a

16	3	2	13
5	10	11	8
9	6	7	12
4	15	14	1

 b 34

409 a

31	3	5	25
9	21	19	15
17	13	11	23
7	27	29	1

 b 64

410 ---

5 Prosent

- 501 a 25% b 29% c 14% d 100%
- 502 $\approx 28\%$
- 503 a --- b Aldursbólkarnir eru ymiskir hesi bæði árin.
c 1988: 46% 2008: 50%
- 504 29%
- 505 54%
- 506 3%
- 507 64%
- 508 72%
- 509 59%
- 510 94%
- 511 a 60 kr b 140 kg c 260 m d 16 cm
- 512 a 80 litrar b 20 mm c 75 tons d 125 pylsur
- 513 a 1200 kr b 180 súkklur
c 45 oyru d 6 m
- 514 a 15 m b 90 g c 11 kg d 2 næmingar
- 515 a 245 cm b 56 m^2 c 378 litrar d 7 g
- 516 255 kr
- 517 675 kr
- 518 Lampa: 127,50 kr Borð: 85 kr
Stólur: 120 kr Bókahill: 187,50 kr
- 519 Lampa: 382,50 kr Borð: 255 kr
Stólur: 360 kr Bókahill: 562,50 kr
- 520 a 1260 kr b 315 kr c 945 kr
- 521 Nei – tað hevði kostað 1560 kr
- 522 a 8,50 kr b 178,50 kr
- 523 42 kg
- 524 (3,5)
- 525 a (8,1) b $AC = BD = 10$ eindir c 48 deildir d 28 eindir
- 526 $\angle EGF = 45^\circ$

- 527** a 60° b 120° c 270° d 180°
- 528** Vídd: 60 cm^2 Ummál: 31 cm
- 529** a --- b (2,4) c R
- 530** 2,33 kr
- 531** a $x = 9$ b $x = 7$ c $x = 3$ d $x = 7$ e $x = 8$ f $x = 9$
- 532** 36 cm^2
- 533** a $\angle B = 58^\circ$ $\angle C = 42^\circ$ b $BC = 11,7 \text{ cm}$
- 534** a 17 cm^2 b 330 cm^2 c 63 cm^2
- 535** a $U = 32 \text{ cm}$ $V = 64 \text{ cm}^2$
b $U = 58 \text{ cm}$ $V = 154 \text{ cm}^2$
- 536** a 228,82 b 150,861 c 160,18 d 170,4 e 321,3 f 277,2
g 47 h 145 i 52 j 23,28 k 25,53 l 43,55
- 537** a 1 t 45 min b 3 t 30 min c 3 t 45 min d 30 min
- 538** a $\frac{1}{3}$ b $\frac{1}{6}$ c $\frac{1}{2}$ d $\frac{1}{4}$ e $\frac{1}{8}$
- 539** a 50,050 kg b 0,250 kg c 1,508 kg d 5,250 kg e 46,230 kg
- 540** a 12,58 kr b 0,29 kr c 50,25 kr d 0,06 kr e 425,10 kr
- 541** a $U = 48 \text{ cm}$ $V = 144 \text{ cm}^2$
b $U = 96 \text{ cm}$ $V = 576 \text{ cm}^2$
c $U = 100 \text{ cm}$ $V = 336 \text{ cm}^2$
d $U = 180 \text{ cm}$ $V = 1625 \text{ cm}^2$
- 542** 67 620 fólk
- 543** Meira enn 30% ($\approx 32,4\%$)
- 544** 27%
- 545** a 55° b 20° c 90° d 160° e 15° f 85°
- 546** a 21 b 53 c 29
d 59 e 93 f 29
g 42 h 73 i 156
- 547** a 71,40 kr b 4,8 kg
- 548** 10%
- 549** a 20% b 65% c 15%
d 85% e 80%
- 550** a 30% b 65% c 5%
d 95% e 70%
- 551** ---

- 552** a 9 b 6 c 120 d 11,2 e 76 f 16
- 553** 81 kr
- 554** a 420 kr b 2660 kr
- 555** 611,20 kr
- 556** a 0,70 b 0,03 c 0,72 d 0,01 e 0,005 f 0,50
- 557** a 2535 kr b 226,20 kr c 45,50 kr
d 297,70 kr e 37,70 kr f 258,70 kr
- 558** 34%
- 559** a 24 b 108 c 64 d 6 e 12,5 f 55,2
- 560** a 1. prísdømi: 1796 kr 2. prísdømi: 3960 kr
b Nei. Í 1. prísdømi er avslátturinn $\approx 14,7\%$. Í 2. prísdømi er avslátturinn $\approx 18,2\%$.
- 561** a 749 mannfólk b 641 konufólk
- 562** a 1216 persónvagnar b 1083 onnur akfær
- 563** a 29 016 pakkar b 74 984 pakkar

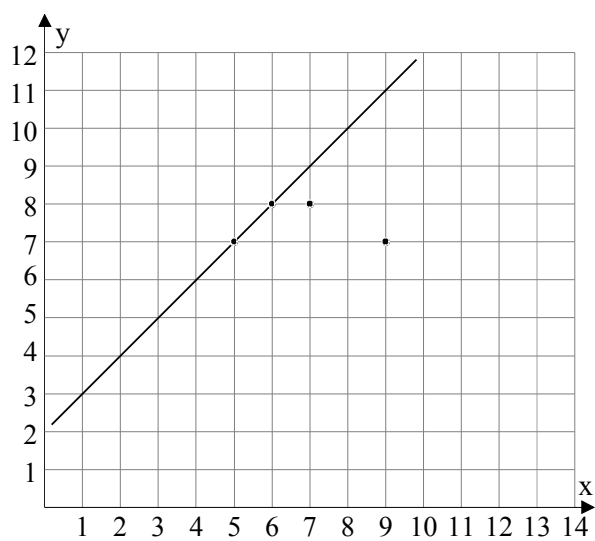
6 Rúmd

- 601 a 60 terningar b 40 terningar
- 602 a 2400 cm^3 b 5040 cm^3 c $16\,380 \text{ cm}^3$
- 603 a 720 cm^3 b $54\,000 \text{ cm}^3$ c $20\,250 \text{ cm}^3$
- 604 Tann minna svávuðósín: $35,7 \text{ cm}^3$ Tann störra svávuðósín: 273 cm^3
- 605 a $1004,5 \text{ cm}^3$ b 1000 cm^3
- 606 a $240\,000 \text{ cm}^3 = 240 \text{ l}$ b $31\,250 \text{ cm}^3 = 31,25 \text{ l}$ c 5 cm
- 607 a 250 cm^3 b 200 cm^3 c 3 øfløskur
- 608 a 13,95 kr b $1695 \text{ g} = 1,695 \text{ kg}$ c $1,5 \text{ l}$
- 609 a --- b 1000 cm^3 c ---
- 610 a --- b 125 cm^3 c --- d 8 terningar
- 611 118 cm^3
- 612 471 cm^3
- 613 $1000 \text{ g} = 1 \text{ kg}$
- 614 a 19,90 kr b 10,63 kr c $(15,95 + 9,95) \text{ kr} : 2 = 12,95 \text{ kr}$
- 615 a 106 g b $1800 \text{ kJ}/420 \text{ kcal}$
- 616 a $2008,8 \text{ cm}^3$ b $3571,2 \text{ cm}^3$
c $2380,8 \text{ cm}^3$ d $4910,4 \text{ cm}^3$
- 617 a $\approx 5,1 \text{ cm}$ b $\approx 10,2 \text{ cm}$ c $\approx 20,4 \text{ cm}$
- 618 a 96 kr b 90 kr c HJÁ MARINI
- 619 a 192 m^2 b 26 rullur
- 620 48 cm^2 24 cm^2 72 cm^2
- 621 1440 kr
- 622 2485 kg
- 623 66 litrar
- 624 a 54 b 113 c 73 d 11,3 e 4,58 f 6,41
- 625 a $x = 6$ b $x = 7$ c $x = 5$ d $x = 7$ e $x = 5$ f $x = 8$
- 626 Skurðpunkt: (4,5)
- 627 a 144 kr b 75 m c 225 l
- 628 a 33 b 38 c 20 d 40 e 14 f 50

- 629** 84 kr
- 630** a 399 m^2 b 432 m^2
- 631** a --- b --- c ---
d $A_1 = (7,0)$ $B_1 = (9,0)$ $C_1 = (9,4)$ $D_1 = (7,4)$ $E_1 = (8,2)$
- 632** a $\angle B = 80^\circ$ b $AB \approx 4,1 \text{ cm}$ $BC \approx 7,6 \text{ cm}$
- 633** a 864 cm^3 b 216 m^3 c $6\,400\,000 \text{ cm}^3 = 6,4 \text{ m}^3$
- 634** a 702 cm^3 b 3280 cm^3 c 189 cm^3
- 635** $16\,000 \text{ cm}^3 = 16 \text{ litrar}$
- 636** 500 g av malnum oksakjötti, 50 g smøri/margarini/olju, 10 tomatir, $2\frac{1}{2}$ agurku, $2\frac{1}{2}$ leyk, 10 ostafíisar, salt og pipar
- 637** a $144\,000 \text{ cm}^3 = 144 \text{ l}$ b $180\,000 \text{ cm}^3 = 180 \text{ l}$ c $720\,000 \text{ cm}^3 = 720 \text{ l}$
- 638** a 6000 cm^3 b 6 dm^3 c $1 \text{ dm}^3 = 1000 \text{ cm}^3$ d 6 litrar
- 639** a 20 cm b $360\,000 \text{ cm}^3$
c 360 litrar d $0,36 \text{ m}^3$
- 640** a $20\,000 \text{ cm}^3 = 20 \text{ l}$ b $12\,000 \text{ g} = 12 \text{ kg}$

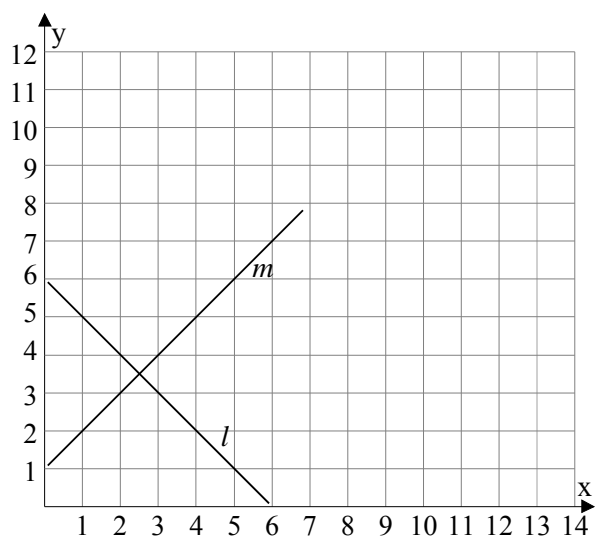
7 Krossskipanin

701



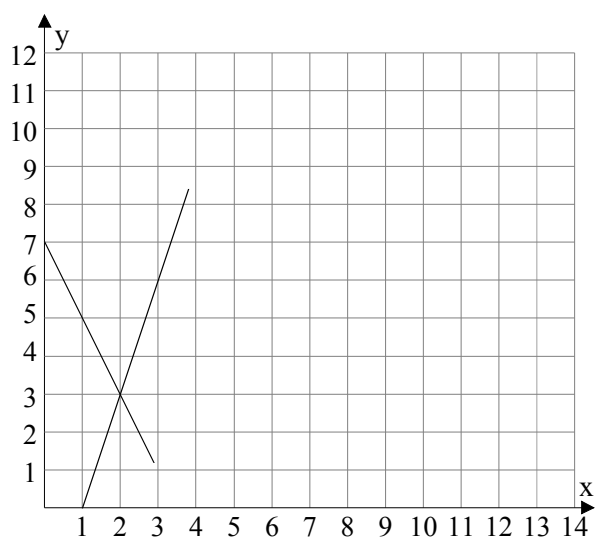
- a Ja
- b Nei
- c Nei
- d Ja

702



- a Sonn
- b Ósonn

703



Skurðpunkt: (2,3)

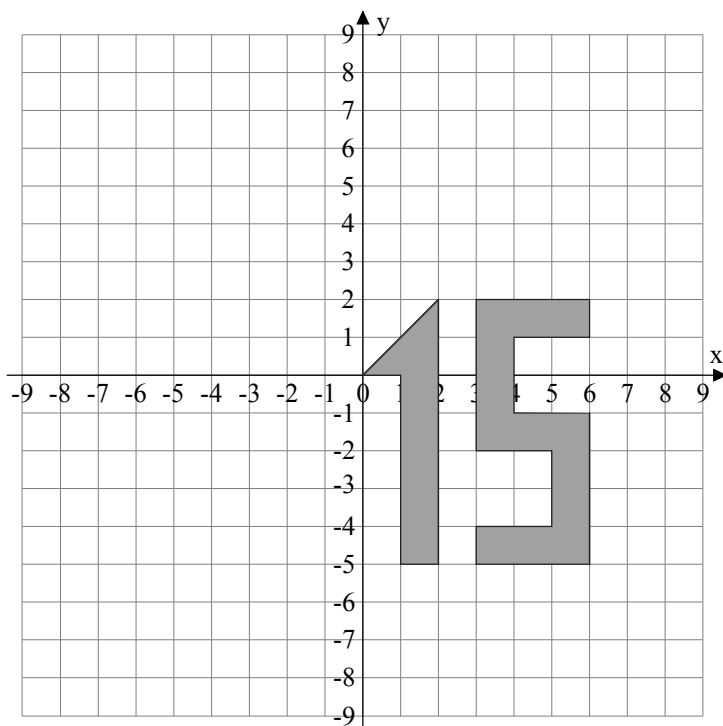
704 Skurðpunkt: (4,6)

705 Skurðpunkt: (6,5)

706 $A = (9,-3)$ $B = (2,5)$ $C = (4,-7)$ $D = (5,9)$
 $E = (13,4)$ $F = (2,-4)$ $G = (14,-9)$

707 a --- b MNOP er rektangul c Vídd: 40 deildir

708



709 a Ja b Ja c Nei d Nei

710 a Nei b Ja c Ja d Ja

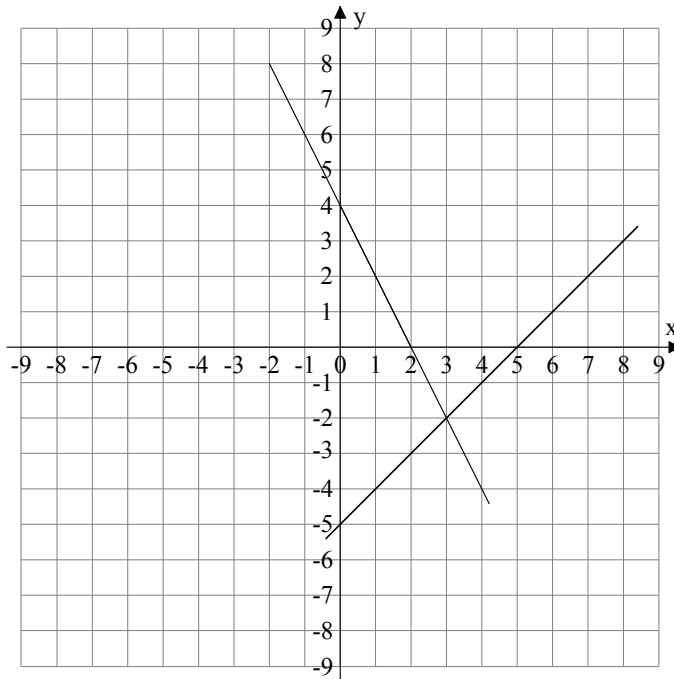
711 Skurðpunkt: $(6,-4)$

712 Skurðpunkt: $(3,1)$

713 a $(2,0)$ b $(0,6)$

714 a $(4,0)$ b $(0,-8)$

715



Skurðpunkt: (3,-2)

716 $(3,2) \curvearrowright (9,-5)$

717 C: $(1,2) \curvearrowright (7,-5)$

D: $(1,5) \curvearrowright (7,-2)$

718 a ---

b ---

c A: $(2,-5) \curvearrowright (5,2)$

B: $(5,-2) \curvearrowright (8,5)$

C: $(5,-5) \curvearrowright (8,2)$

719 a

1 →
7 ↓

b A: $(6,3) \curvearrowright (7,-4)$ B: $(3,6) \curvearrowright (4,-1)$

C: $(1,4) \curvearrowright (2,-3)$ D: $(4,1) \curvearrowright (5,-6)$

c 12 deildir

d 12 deildir

720 B: $(4,1) \curvearrowright (4,-1)$

C: $(2,5) \curvearrowright (2,-5)$

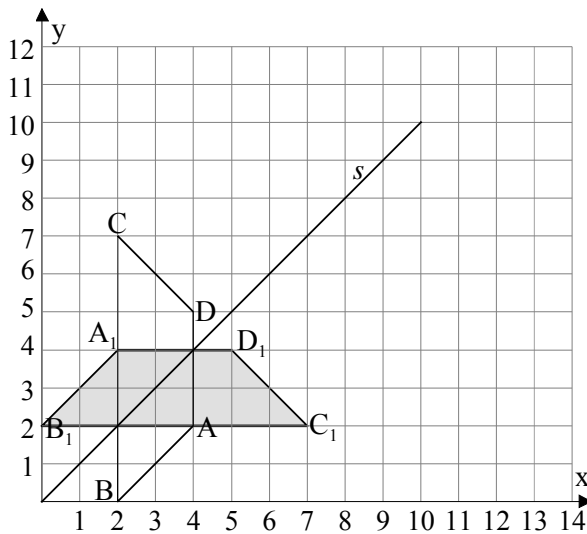
721 a ---

b ---

c $A_1 = (2,-2)$ $B_1 = (4,-4)$

$C_1 = (8,-4)$ $D_1 = (8,-2)$

722



$A_1 = (2,4)$

$B_1 = (0,2)$

$C_1 = (7,2)$

$D_1 = (5,4)$

723 a ---

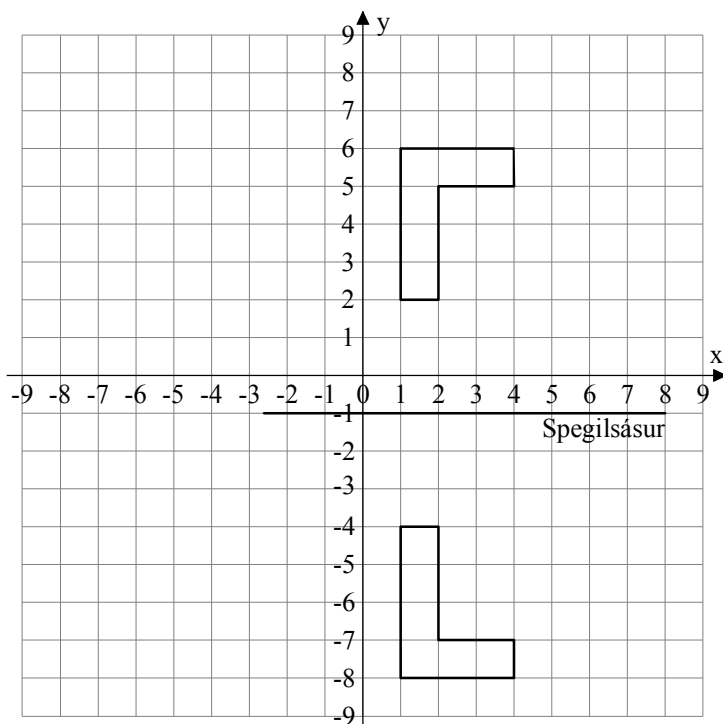
b ---

c $A_1 = (4,-1)$ $B_1 = (0,2)$

$C_1 = (2,3)$

724

a



b (0,-1)

725 $A = (-7,5)$ $B = (-3,10)$ $C = (-2,1)$ $D = (-7,-7)$ $E = (-3,-8)$ $F = (-2,-9)$

726 K

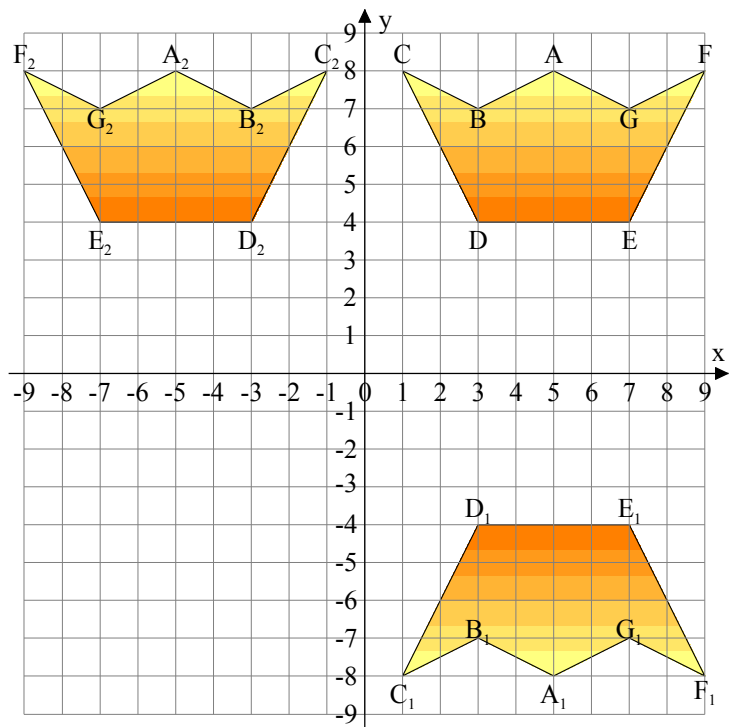
727 a VÁGUR b SANDUR c HVALVÍK d SVÍNOY

728 a GÍSLI b FRÓÐA c BJARNI d JÓFRÍÐ

729 $B \curvearrowright B_1 = (-5,-1)$ $C \curvearrowright C_1 = (-9,-1)$ $D \curvearrowright D_1 = (-9,-3)$ 730 $E = (-9,4) \curvearrowright E_1 = (0,-5)$ $F = (-7,8) \curvearrowright F_1 = (2,-1)$ $G = (-3,4) \curvearrowright G_1 = (6,-5)$ 731 $H = (-4,-6) \curvearrowright H_1 = (4,3)$ $I = (-5,-5) \curvearrowright I_1 = (3,4)$
 $J = (-8,-8) \curvearrowright J_1 = (0,1)$ $K = (-7,-9) \curvearrowright K_1 = (1,0)$ 732 a --- b --- c $B \curvearrowright B_1 = (0,-2)$ $C \curvearrowright C_1 = (-5,-1)$ 733 a --- b $\angle D \approx 56^\circ$, $\angle E \approx 56^\circ$, $\angle F \approx 67^\circ$ c ---d $D \curvearrowright D_1 = (0,-7)$ $E \curvearrowright E_1 = (0,1)$ e $\angle D_1 \approx 56^\circ$, $\angle E_1 \approx 56^\circ$, $\angle F_1 \approx 67^\circ$ f $V = 24$ deildir hvør734 a --- b 15 deildir c $B_1 = (-1,5)$ $C_1 = (-1,0)$ $D_1 = (-4,0)$
d 26 deildir e $B_2 = (5,3)$ $C_2 = (5,-2)$ $D_2 = (2,-2)$ 735 $A_1 = (-1,7)$ $B_1 = (-2,8)$ $C_1 = (-7,8)$
 $D_1 = (-7,4)$ $E_1 = (-2,4)$ $F_1 = (-3,5)$

- 736 $A_1 = (5, -8)$
 $B_1 = (3, -7)$
 $C_1 = (1, -8)$
 $D_1 = (3, -4)$
 $E_1 = (7, -4)$
 $F_1 = (9, -8)$
 $G_1 = (7, -7)$

- 737 $A_2 = (-5, 8)$
 $B_2 = (-3, 7)$ $C_2 = (-1, 8)$
 $D_2 = (-3, 4)$
 $E_2 = (-7, 4)$
 $F_2 = (-9, 8)$
 $G_2 = (-7, 7)$



- 738 A, G, J og M

- 739 a --- b $D = (4, 4)$ c $\angle BAC \approx 37^\circ$ d $\angle BCA \approx 53^\circ$

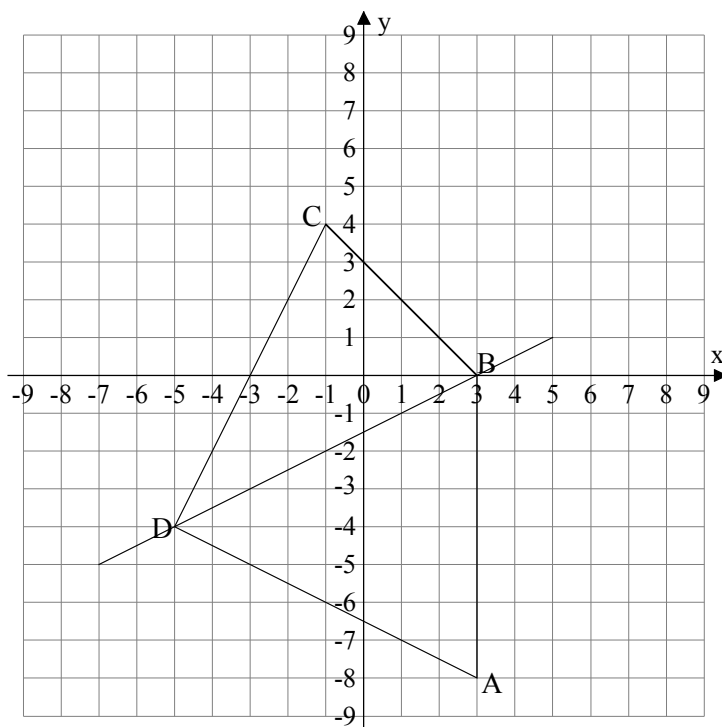
- 740 Nei

- 741 a --- b $\angle E \approx 63^\circ$ $\angle F \approx 45^\circ$ $\angle G \approx 72^\circ$
c --- d $\angle H \approx 45^\circ$ $\angle I \approx 63^\circ$ $\angle G \approx 72^\circ$ e Nei

- 742 a --- b Nei

- 743 a --- b $G = (-6, -3)$ $H = (-2, -3)$ $L = (-8, -1)$

744
a og d



- b $\angle A \approx 63^\circ$
 $\angle B \approx 135^\circ$
 $\angle C \approx 72^\circ$
 $\angle D \approx 90^\circ$
c 360°
e Nei

745 a Nei b Ja c (4,1)

746 a Ja, tær eru vinkulrættar hvør á aðra b (4,0)

747 a Hvørki b (6,3)

748 Skurðpunkt: (3,-5)

749 a 29 b 36 c 47
d 29 e 56 f 86

750 a --- b $\angle A \approx 68^\circ$, $\angle B \approx 68^\circ$, $\angle C \approx 44^\circ$
c 180° d $U = 22$ cm

751 Tað ber ikki til at tekna hendan tríkantin

752 a 34 b 5 c 12 d 1
e 11 f 0 g 15 h 36

753 a 120 m^2 b 99 m^2 c 192 cm^2 d 91 cm^2

754 a 400 kr b 120 m c 992 m

755 a 949 kg b 208 cm c 286 bilar

756 a 55,8 cm b 55,8 m c 74,4 cm d 55,8 cm e 99,2 m

757 a 17 b 10 c 24 d 50 e 88 f 160

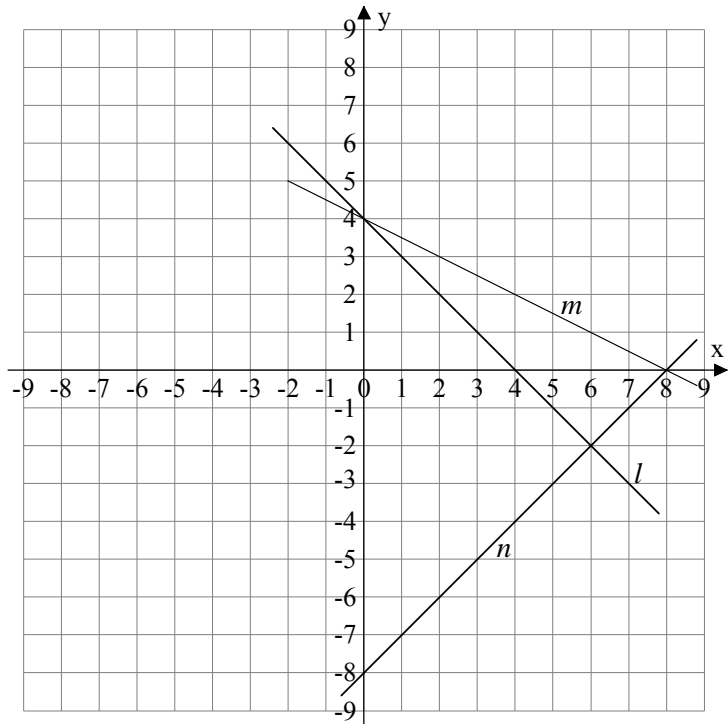
758 a 4 sekund b 90°

759 a 84 b 336 c 28

760 a $x = 9$ b $x = 6$ c $x = 7$ d $x = 8$ e $x = 3$ f $x = 4$

761 Hornalinjurnar: $\approx 8,5$ cm

762 $(3,2), (4,1), (5,1), (5,0),$
 $(6,0), (6,-1)$ og $(7,0)$



763 a 560 b 420 c 224

764

Longd á síðum (cm)	Vídd (cm ²)
1	9
2	16
3	21
4	24
5	25

765 Skurðpunkt: $(4,0)$

766 a $x = 9$ b $x = 4$ c $x = 8$ d $x = 5$ e $x = 6$ f $x = 8$

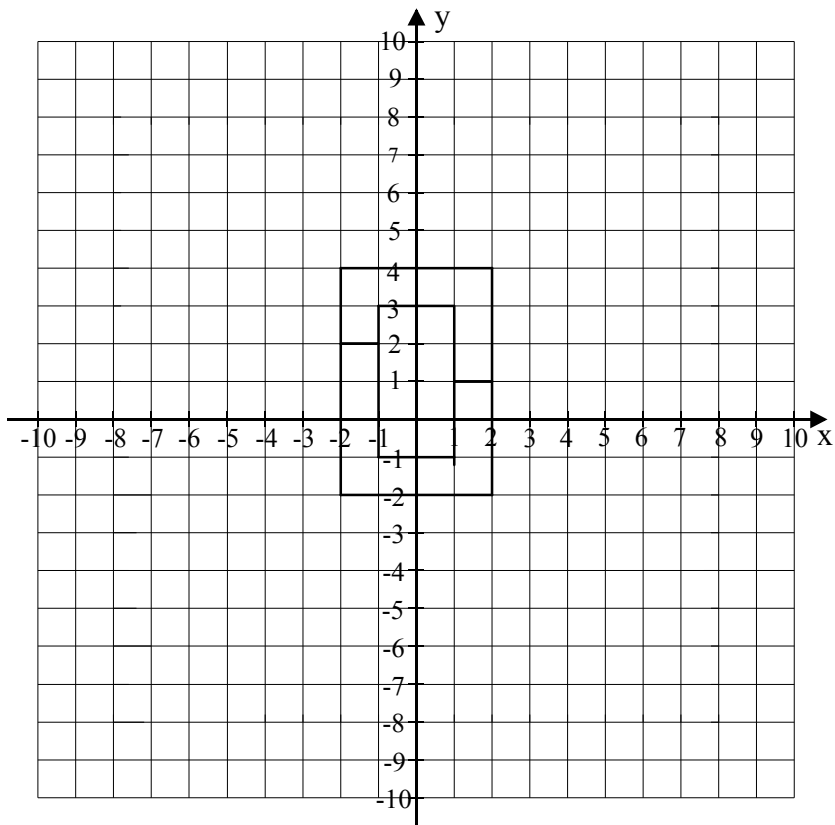
767 a 25 km b 130 kr c 950 kr d 20 km

768 a $(3,0)$ b $(0,-6)$

769 a Nei b Ja c Ja d Nei

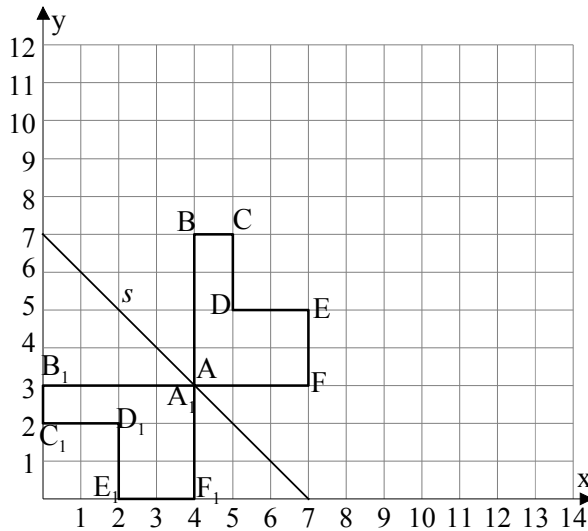
770 a Sonn b Ósonn

771



772 $A_1 = (-1,1)$ $B_1 = (-3,-3)$ $C_1 = (-1,-3)$

773



$A_1 = (4,3)$
 $B_1 = (0,3)$
 $C_1 = (0,2)$
 $D_1 = (2,2)$
 $E_1 = (2,0)$
 $F_1 = (4,0)$

774 a S b Ó c Ó d S e Ó f Ó

775 $B_1 = (6,8)$ $C_1 = (6,5)$ $D_1 = (4,5)$

776 Skurðpunkt: $(-1,7)$

777 Skurðpunkt: $(-4,-3)$

778 a ÍSLAND b SVØRÍKI c UNGARN d SPANIA

779 Tær eru hvørki javnfjarar ella vinkulrættar b Skurðpunkt: $(-2,1)$

780 Skurðpunkt: $(6,-2)$

781 Skurðpunkt: (4,6)

782 a Nei b Nei c Ja d Ja

783 $B_1 = (5,-3)$ $C_1 = (9,1)$

784 a Ósonn b Sonn

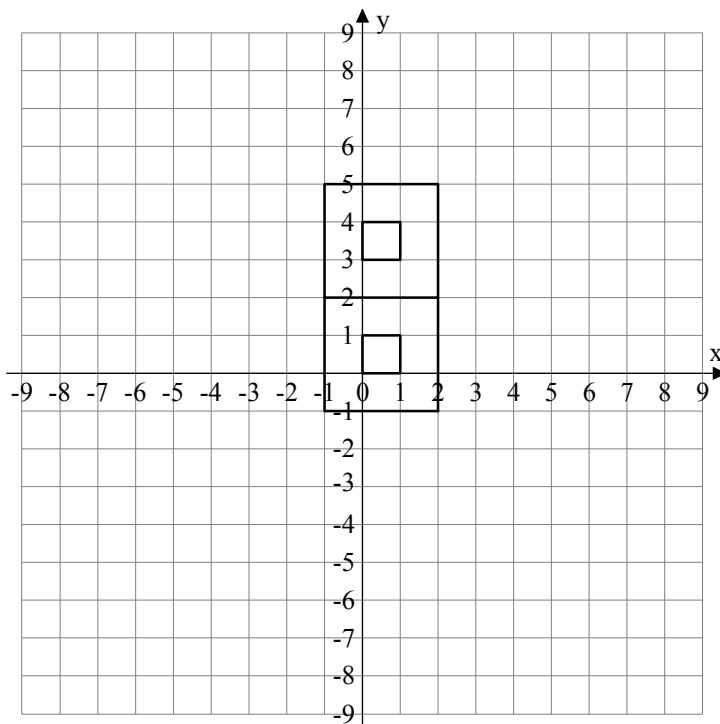
785 Einki skurðpunkt

786 Javnfjarar linjur hava sama tal framman fyri x.

787 a Ja b Nei c Ja d Nei

788 a (8,0) b (0,4)

789

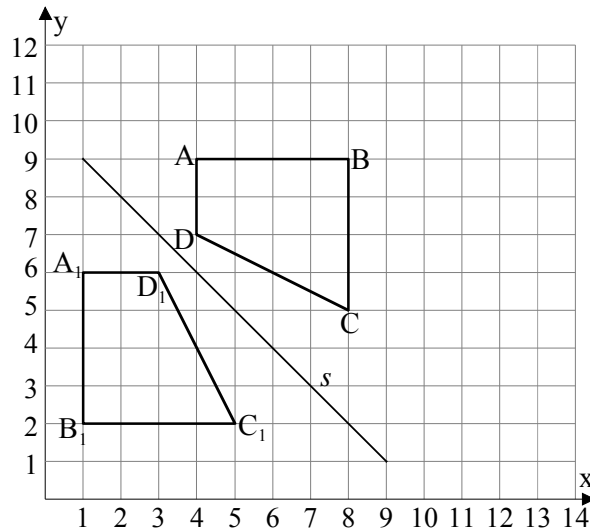


8

790 $B_1 = (4,1)$ $C_1 = (6,1)$ $D_1 = (6,-3)$

791 $A_1 = (4,-5)$ $B_1 = (5,-2)$ $C_1 = (1,-2)$

792



$A_1 = (1,6)$

$B_1 = (1,2)$

$C_1 = (5,2)$

$D_1 = (3,6)$

- 793 a Ó b S c Ó d Ó e Ó f Ó
- 794 Skurðpunkt: $(-6,-2)$
- 795 Skurðpunkt: $(-5,-4)$
- 796 a $A_1 = (2,8)$ og $B_1 = (-3,3)$ b Viddin á $CDA_1B_1 = 50$ deildir
- 797 Skurðpunkt: $(-4,1)$
- 798 a --- b $A_1 = (-1,10)$ $B_1 = (-12,10)$ $C_1 = (-12,2)$ $D_1 = (-1,2)$
c --- d $A_2 = (1,-10)$ $B_2 = (12,-10)$ $C_2 = (12,-2)$ $D_2 = (1,-2)$
- 799 a --- b --- c $A_1 = (-1,5)$ $B_1 = (3,5)$ $C_1 = (3,3)$
d Báðir tríkantarnir eru 4 deildir til víddar.

8 Føroyar – ferðing

- 801** a gerandisdagar (mánadag – fríggjadag) b leygardag c sunnudag
- 802** a 10 minuttir b 25 minuttir
- 803** a 4 ferðir b 2 ferðir c 0 ferð
- 804** a 4 bussum og 1 ferju b 5 tunlar c 10.55 d 4 t 5 min
- 805** a 08.20 b 09.05 c 3 bussum og 2 ferjum
d 2 tunlar e 14.15 f 5 t 55 min

9 Brot

901 a = b < c < d =
e = f < g < h =

902 a t.d. $\frac{2}{4}, \frac{3}{6}, \frac{4}{8}$ b t.d. $\frac{2}{6}, \frac{3}{9}, \frac{4}{12}$
c t.d. $\frac{2}{8}, \frac{3}{12}, \frac{4}{16}$ d t.d. $\frac{2}{2}, \frac{3}{3}, \frac{4}{4}$

903 a og d ($\frac{1}{3} = \frac{2}{6}$) b og f ($\frac{3}{4} = \frac{6}{8}$) c og e ($\frac{1}{4} = \frac{2}{8}$)

904 a Ó b Ó c S
d Ó e Ó f S
g Ó h S i S

905 a $\frac{2}{6}$ og $\frac{1}{3}$ b $\frac{1}{2}$ og $\frac{2}{4}$ c $\frac{1}{2}$ og $\frac{4}{8}$ d $\frac{1}{4}$ og $\frac{3}{12}$

906 a S b Ó c S
d S e Ó f Ó
g Ó h Ó i Ó

907 a $\frac{1}{3} + \frac{1}{3} = \frac{2}{3}$ b $\frac{1}{4} + \frac{2}{4} = \frac{3}{4}$
c $\frac{1}{5} + \frac{2}{5} + \frac{1}{5} = \frac{4}{5}$ d $\frac{1}{4} + \frac{3}{4} = \frac{4}{4} = 1$

908 a $\frac{4}{9}$ b $\frac{5}{6}$ c $\frac{6}{7}$ d $\frac{3}{4}$ e $\frac{4}{5}$ f $\frac{5}{7}$

909 a $\frac{7}{9}$ b $\frac{4}{5}$ c $\frac{5}{8}$ d $\frac{11}{12}$ e $\frac{9}{10}$ f $\frac{5}{6}$

910 a $\frac{2}{2} = 1$ b $\frac{6}{6} = 1$ c $\frac{5}{5} = 1$

911 a $\frac{5}{8} - \frac{2}{8} = \frac{3}{8}$ b $\frac{4}{6} - \frac{1}{6} = \frac{3}{6} = \frac{1}{2}$
c $\frac{3}{4} - \frac{1}{4} = \frac{2}{4} = \frac{1}{2}$ d $\frac{7}{10} - \frac{2}{10} = \frac{5}{10} = \frac{1}{2}$

912 a $\frac{2}{5}$ b $\frac{6}{8} = \frac{3}{4}$ c $\frac{3}{10}$ d $\frac{4}{15}$ e $\frac{4}{6} = \frac{2}{3}$ f $\frac{4}{8} = \frac{1}{2}$

913 a $\frac{1}{4}$ b $\frac{1}{3}$ c $\frac{2}{7}$ d $\frac{2}{9}$ e $\frac{2}{12} = \frac{1}{6}$ f $\frac{3}{6} = \frac{1}{2}$

914 a $\frac{5}{6}$ b $\frac{1}{5}$ c $\frac{4}{7}$ d $\frac{1}{2}$ e $\frac{4}{9}$ f $\frac{7}{10}$

915 a $1 + \frac{1}{3}$ b $1 + \frac{4}{5}$ c $1 + \frac{2}{4} = 1 + \frac{1}{2}$
d $1 + \frac{1}{2}$ e $1 + \frac{2}{6} = 1 + \frac{1}{3}$ f $1 + \frac{2}{5}$

- 916** a $1 + \frac{3}{6} = 1 + \frac{1}{2}$ b $1 + \frac{2}{8} = 1 + \frac{1}{4}$ c $1 + \frac{5}{8}$
d $1 + \frac{3}{9} = 1 + \frac{1}{3}$ e $1 + \frac{4}{7}$ f $1 + \frac{2}{3}$
- 917** a $4 + \frac{2}{5}$ b $5 + \frac{1}{3}$ c $4 + \frac{2}{10} = 4 + \frac{1}{5}$
d $4 + \frac{1}{2}$ e $2 + \frac{1}{3}$ f $5 + \frac{2}{3}$
- 918** a $5 + \frac{3}{9} = 5 + \frac{1}{3}$ b $6 + \frac{2}{5}$ c $5 + \frac{1}{8}$
d $4 + \frac{5}{8}$ e $4 + \frac{5}{6}$ f $3 + \frac{7}{10}$
- 919** a 0,5 b 0,25 c 0,75 d 0,2
- 920** a 0,75 b 0,7 c 1,25 d 0,95 e 0,70 f 1,45
- 921** a $\approx 0,88$ b $\approx 0,69$ c $\approx 0,44$ d $\approx 0,33$ e $\approx 0,67$ f 0,5
- 922** a $\approx 0,7$ b $\approx 0,7$ c $\approx 0,7$ d $\approx 0,8$ e $\approx 0,8$ f 0,5
- 923** a 8 b 10 c 14 d 18 e 15 f 42
- 924** a 5 b 9 c 13 d 11 e 7 f 24
- 925** a 7 b 36 c 21 d 23 e 13 f 12
- 926** a 5 b 10 c 15 d 20 e 10 f 20
- 927** a $\frac{5}{12}$ b 14 c 10
- 928** a $\frac{1}{3}$ b 4 c 12
- 929** $\frac{8}{24} = \frac{1}{3}$
- 930** Jóna
- 931** a 162 m^2 b $256,5 \text{ m}^2$ c $94,5 \text{ m}^2$
- 932** a ≈ 13 b ≈ 10 c ≈ 5 d ≈ 9 e ≈ 11 f ≈ 20
- 933** $(-8, -3)$
- 934** a --- b $\angle A \approx 37^\circ, \angle B = 90^\circ, \angle C \approx 53^\circ$
c $U = 24 \text{ cm}$ d $V = 24 \text{ cm}^2$
- 935** a 42 kr b 115 m c 432 cm d 615 l e 168 g f 27,30 kr
- 936** a 64 b 196 c 150 d 288 e 144 f 162
- 937** a 6 tímar b 51 kr
- 938** a $\frac{1}{2}$ tími b $\frac{2}{4}$ tímar c $\frac{3}{6}$ tímar

- 939** a 1800 b 1000 c 4500 d 1600 e 2800 f 1800
- 940** a 24 dagar b 25 dagar
- 941** Eingin loysn
- 942** a --- b --- c $A_1 = (5,-1)$ $B_1 = (9,1)$ $C_1 = (9,-1)$
- 943** a --- b $\angle x = 60^\circ$, $\angle y = 120^\circ$ og $\angle v = 120^\circ$
- 944** a 2 b 6 c 2 d 4 e 80 f 12
- 945** a $x = 7$ b $x = 6$ c $x = 4$ d $x = 9$ e $x = 8$ f $x = 8$
- 946** a $\frac{3}{12} = \frac{1}{4}$ b $\frac{6}{12} = \frac{1}{2}$ c $\frac{4}{12} = \frac{1}{3}$ d $\frac{2}{12} = \frac{1}{6}$ e $\frac{8}{12} = \frac{2}{3}$ f $\frac{9}{12} = \frac{3}{4}$
- 947** a Ó b S c S
d Ó e Ó f Ó
g Ó h Ó i S
- 948** a Ja b Ja c Nei d Nei e Nei f Ja
- 949** a 1 b $\frac{4}{5}$ c $\frac{6}{7}$ d $\frac{2}{4} = \frac{1}{2}$ e $\frac{7}{9}$ f $\frac{5}{6}$
- 950** a $\frac{2}{5}$ b $\frac{3}{7}$ c $\frac{2}{8} = \frac{1}{4}$ d $\frac{1}{4}$ e $\frac{11}{12}$ f $\frac{9}{10}$
- 951** a 19 b 12 c 12 d 13 e 7 f 36
- 952** a t.d. $\frac{2}{4}, \frac{3}{6}, \frac{4}{8}$ b t.d. $\frac{2}{6}, \frac{3}{9}, \frac{4}{12}$
c t.d. $\frac{2}{8}, \frac{3}{12}, \frac{4}{16}$ d t.d. $\frac{5}{5}, \frac{6}{6}, \frac{7}{7}$
- 953** a $1 + \frac{1}{3}$ b $1 + \frac{3}{4}$ c $1 + \frac{2}{5}$ d $1 + \frac{4}{5}$ e $1 + \frac{5}{6}$ f $1 + \frac{3}{8}$
- 954** a 0,5 b 0,25 c 0,2 d 0,75 e 0,6 f 0,5
- 955** a 375 kr b 54 kr c 208 kr d 137 kr e 97 kr
f 104 kr g 56 kr h 107 kr i 97 kr
- 956** a $\frac{1}{20}, \frac{1}{10}, \frac{1}{5}, \frac{1}{4}, \frac{1}{3}, \frac{1}{2}$ b $\frac{1}{6}, \frac{1}{3}, \frac{6}{12}, \frac{4}{6}, \frac{2}{3}, \frac{5}{6}$
- 957** a 10 puntar b 5 puntar c 25 puntar d $10 \text{ puntar} = \frac{10}{50} = \frac{1}{5}$
- 958** a $1 + \frac{2}{5}$ b $1 + \frac{5}{7}$ c $1 + \frac{2}{3}$
d $2 + \frac{2}{3}$ e $2 + \frac{2}{5}$ f $2 + \frac{2}{10} = 2 + \frac{1}{5}$
- 959** 42 kr
- 960** a 4 puntar b 6 puntar c 3 puntar d 8 puntar e 2 puntar
f 9 puntar g 6 puntar h 6 puntar i 10 puntar
- 961** a < b > c < d > e = f =

- 962** a Nei b Ja c Nei
- 963** a $1 + \frac{3}{4}$ b $3 + \frac{2}{3}$ c $3 + \frac{1}{5}$
d 4 e $4 + \frac{1}{7}$ f $2 + \frac{4}{8} = 2 + \frac{1}{2}$
- 964** a $\frac{1}{3}$ b $1 + \frac{3}{5}$ c $1 + \frac{2}{3}$
d $1 + \frac{1}{4}$ e $1 + \frac{3}{7}$ f $2 + \frac{4}{8} = 2 + \frac{1}{2}$
- 965** a $\frac{1}{2}$ b $\frac{3}{4}$ c $\frac{1}{5}$ d $1 + \frac{1}{2}$ e $\frac{1}{4}$ f $\frac{6}{10} = \frac{3}{5}$
- 966** a $7 + \frac{2}{5}$ b $21 + \frac{1}{3}$ c $8 + \frac{1}{6}$
d $11 + \frac{3}{6} = 11 + \frac{1}{2}$ e $12 + \frac{2}{4} = 12 + \frac{1}{2}$ f $6 + \frac{5}{8}$
- 967** a 2 b $7 + \frac{1}{3}$ c $4 + \frac{1}{2}$ d 10 e $4 + \frac{4}{5}$ f 8
- 968** a 1. dagin 210 km
2. dagin 70 km
3. dagin 0 km
4. dagin 140 km
5. dagin 140 km
6. dagin 280 km
- b $\frac{1}{3}$ c 140 km

10 Tema – Galilei

1001 ---

1002 ---

1003 ---

1004 ---

1005 a $\approx 1,6$ sekund b $\approx 1,6$ sekund
c Tyngdin á loddinum ávirkar ikki sveigtíðina.

1006 Støddin á sveiggjunum ávirkar ikki sveigtíðina.

1007 Sveigtíðin $\approx 1,1$ sekund 3. Longdin á pendulinum.

1008 a $V_{ABC} = 20 \text{ cm}^2$ $V_{DEF} = 30 \text{ cm}^2$
b $\angle A = 90^\circ$, $\angle B = 32^\circ$, $\angle C = 58^\circ$ $\angle D = 90^\circ$, $\angle E = 59^\circ$, $\angle F = 31^\circ$
c 180°
d 180°

1009 $\pi = 3,1$
U = 12,4 cm U = 18,6 cm U = 31 cm

1010 a 870 b 1040 c 240 d 1110 e 600 f 660
g 530 h 690 i 2850 j 1270 k 880 l 1580

1011 a 124 b 87 c 261 d 303 e 39
f 63 g 82 h 92 i 17 j 58

1012 a 157,50 kr b 900 kg c 362,25 l d 720 kr e 1125 m² f 11,25 g

1013 $7020 \text{ cm}^3 = 7,02 \text{ l}$

11 Heil töl

1101 36, 49, 64 og 81

1102 Tey eru úrslit av at falda eitt tal við sær sjálvum (kvadrattöl).

1103 $10^2 = 100$ $11^2 = 121$ $12^2 = 144$ $13^2 = 169$ $14^2 = 196$ $15^2 = 225$
 $16^2 = 256$ $17^2 = 289$ $18^2 = 324$ $19^2 = 361$ $20^2 = 400$

1104 **a** 1, 4, 9 og 16 puntar
b 25 og 36 puntar
c 49 puntar
d 121 puntar

1105 **a** 441 **b** 625 **c** 841 **d** 900 **e** 1369 **f** 2025

1106 **a** 32 **b** 100 **c** 108 **d** 130 **e** 89 **f** 96

1107 $1024 = 32^2$ $1089 = 33^2$ $1156 = 34^2$ $1225 = 35^2$
 $1296 = 36^2$ $1369 = 37^2$ $1444 = 38^2$

1108 **a** 64 cm² **b** 144 cm² **c** 324 cm² **d** 400 cm² **e** 225 cm² **f** 576 cm²

1109 Longd: 18 cm Breidd: 6 cm

1110 t.d. $3^2 + 4^2 = 5^2$
 $6^2 + 8^2 = 10^2$

1111 **a** x = 7 **b** x = 6 **c** x = 3 **d** x = 10 **e** x = 2
f x = 9 **g** x = 5 **h** x = 8 **i** x = 4 **j** x = 11

1112 **a** 8 **b** 27 **c** 64 **d** 125 **e** 216
f 343 **g** 512 **h** 729 **i** 1000

1113 **a** 4 **b** 18 **c** 48 **d** 100 **e** 180 **f** 900

1114 $1331 = 11^3$

1115 $64 = 8^2 = 4^3$

1116 $729 = 27^2 = 9^3$

1117 x = 1, tí $1^3 = 1^2$

1118 **a** 35 **b** 91 **c** 189 **d** 341 **e** 559 **f** 855

1119 **a** 8 cm³ **b** 27 cm³ **c** 64 cm³
d 216 cm³ **e** 512 cm³ **f** 1000 cm³

1120 8 ferðir størri.

1121 -4, -3, -2, -1, 0, 1, 2, 3, 4

1122 1, 2, 3, 4, 5

1123 -9, -8, -7, -6, -5, -4, -3, -2, -1

- 1124** a 5, 6, 7, 8, 9 ...
b -3, -4, -5, -6 ...
- 1125** a -12 b -7 c -12 d -1 e -12 f -10
- 1126** a -11 b -21 c -5 d -12 e -12 f -13
- 1127** a -14 b -20 c -18 d -6 e -5 f 6
- 1128** a 18 b $18 + \frac{1}{2}$ c 52 d 64 e 71 f 38
- 1129** 3,8 cm
- 1130** a ≈ 720 b ≈ 420 c ≈ 440 d ≈ 1020 e ≈ 450 f ≈ 880
- 1131** a 570 kg b 432 cm c 288 dm d 171 mm e 0,48 kr f 6,24 m
- 1132** 7,5 km/t
- 1133** a --- b --- c $B_1 = (0,1)$ $C_1 = (4,1)$ $D_1 = (4,-2)$ $E_1 = (2,-3)$
- 1134** 10 m^2
- 1135** (4,-2)
- 1136** a $x = 12$ b $x = 7$ c $x = 9$ d $x = 5$ e $x = 8$ f $x = 8$
- 1137** a 98 b 99 c 73 d 63
e 178 f 57 g 86 h 72
- 1138** a --- b Ja c ABCD = 8 deildir EFGH = 16 deildir
- 1139** a --- b $BC \approx 3 \text{ cm}$ $AC \approx 5,2 \text{ cm}$ c 90°
- 1140** a 8 b 9 c 14 d 12 e 18 f 36
- 1141** a 40 cm^2 b 108 cm^2 c 112 cm^2
- 1142** a 8 b 10 c 10 d 32 e 0 f 14
- 1143** a $44,8 \text{ m}^3$ b 44 800 l c 2688 l
- 1144** 1, 4, 9, 16, 25, 36, 49, 64, 81, 100
- 1145** a 521 b 65 c 45 d 21 e 80 f 81
- 1146** a 1, 2, 3, 4 og 5 b einki c 1, 2, 3, 4, 5, 6 og 7
- 1147** a 39 b 4 c 47 d 35 e 368 f 189
- 1148** a 81 cm^2 b 324 cm^2 c 576 cm^2 d 144 cm^2
- 1149** $8^2 + 6^2 = 64 + 36 = 100$
- 1150** a 125 cm^3 b 729 cm^3 c 8 cm^3
- 1151** a 21 b -70 c -42 d -33 e -25 f -12
- 1152** a -17 b -31 c -12 d 1 e 0 f -2

- 1153** a $+5 - 6 + 7 = 6$ b $-4 + 8 - 6 = -2$ c $-6 - 10 + 12 = -4$
- 1154** a 7 b 36 c 9 d 25 e 8 f 16
- 1155** a $8^3 = 216$ b $6^5 = 7776$ c $5^3 = 125$ d $2^6 = 64$ e $7^4 = 2401$ f $3^5 = 243$
- 1156** a $6^3 = 216 \text{ cm}^3$ b 288 cm^3
- 1157** a Ja b Ja c Ja d Nei e Nei f Nei
- 1158** a Ja b Ja c Ja d Nei e Nei f Nei
- 1159** a $a^2 : b^2 = (a : b)^2$ b $a^2 + b^2 \neq (a + b)^2$
c $a^2 \cdot b^2 = (a \cdot b)^2$ d $a^2 - b^2 \neq (a - b)^2$
- 1160** $6^2 + 4^3 = 100$
- 1161** a -2 b 4 c -19 d 0
- 1162** a $-12 + 15 + 16 - 14 = 5$
b $+13 + 11 - 12 - 10 = 2$
c $-19 + 17 - 15 + 13 = -4$

12 Tíð og ferð

1201 $60 \cdot 20 = 1200$ sek

1202 a $60 \cdot 15 = 900$ sek b 0,25 tími

1203 $60 \cdot 60 = 3600$ sek

1204 $60 \cdot 24 = 1440$ min

1205 a 8 gløs b 6 vaktir

1206 a 2 gløs b 4 gløs c 7 gløs d 6 gløs e 2 gløs f 7 gløs

1207	Pápi	$a = 26$ $b = 6$ $c = 0$ $d = 73$ $e = \frac{73}{4} = 18,25 \approx 18$	
		$26 + 6 + 0 + 73 + 18 = 123$ $\frac{123}{7} = 17$, avlop 4	mikudag
	Mamma	$a = 12$ $b = 4$ $c = 0$ $d = 75$ $e = \frac{75}{4} = 18,25 \approx 18$	
		$12 + 4 + 0 + 75 + 18 = 109$ $\frac{109}{7} = 15$, avlop 4	mikudag
	Inga	$a = 20$ $b = 3$ $c = 0$ $d = 98$ $e = \frac{98}{4} = 24,5 \approx 24$	
		$20 + 3 + 0 + 98 + 24 = 145$ $\frac{145}{7} = 20$, avlop 5	hósdag

1208 a --- b ---

1209 3 mánaðir

1210 52 heilar vikur

1211 1864, 1940, 1996, 2000, 2020 og 2400

1212 29 dagar

1213 a 1 tími 15 minuttir b 3 tímar 15 minuttir c 8 tímar 45 minuttir
d 0 tími 15 minuttir e 7 tímar 15 minuttir f 5 tímar 40 minuttir

1214 a 1 tími 20 minuttir b 7 tímar 50 minuttir c 5 tímar 40 minuttir
d 6 tímar 50 minuttir e 6 tímar 40 minuttir f 10 tímar 40 minuttir

1215 a 10 minuttir b 8 minuttir
c 50 minuttir d 16 tímar 50 minuttir

1216 a Úr Steinatúni b kl 7.00
c kl 17.43 d kl 17.33

1217 a kl 14.50 b kl 17.10

1218 kl 07.45

1219 20 minuttir

1220 3 ferðir

1221 15 ella 20 minuttir

- 1222 kl 22.20
- 1223 a $\approx 31,4$ cm b $\approx 62,8$ cm
 c $\approx 188,4$ cm $\approx 1,9$ m d 753 408 cm $\approx 7,5$ km
- 1224 ≈ 3 fötur
- 1225 ---
- 1226 a 76 m b 500 m c 200 dam
 d 200 000 cm e 450 hm f 15 000 mm
- 1227 10 dm
- 1228 a 10 m b 100 m c 1000 m
- 1229 10 cm
- 1230 10 000 dm
- 1231 100 000 cm
- 1232 4 km
- 1233 10 km/t
- 1234 50 km/t
- 1235 255 m
- 1236 Umleið 50 minuttir (42 – 56 minuttir)
- 1237 a 125 m b 750 m c 140 m
- 1238 a 40 176 km b 40 176 km
- 1239 $\frac{100}{9,77} \cdot \frac{3600}{1000} \approx 36,8$ km/t
- 1240 ≈ 5 min 31 sek
- 1241 Vit broyta fyrst m/s til m/t við at falda við $60 \cdot 60$. So gera vit m/t til km/t við at býta við 1000. Hetta er tað sama sum at falda m/s við talinum 3,6.
- 1242 143 065 440 km
- 1243 a $x = 9$ b $x = 4$ c $x = 9$ d $x = 8$ e $x = 9$ f $x = 7$
- 1244 a 2052 b 1293 c 1792 d 2560 e 3744 f 1268
- 1245 2025 múrsteinar
- 1246 a --- b Skurðpunkt: (2,5)
- 1247 a 288,56 b 254,7 c 49,02 d 185,2 e 338,4 f 9
- 1248 a 56 kr b $\frac{1}{4}$ c 14 kr
- 1249 a --- b 8 deildir c Ja d $\angle A = 45^\circ$ $\angle B = 90^\circ$ $\angle C = 45^\circ$

- e (3,3), (3,4) og (4,4)
- 1250** 24 mátar
- 1251** a 8 b 14 c 6 d 6 e 15 f 18
- 1252** 31,20 kr
- 1253** a 12 b 14 c 28 d 21
- 1254** a 14 b 8 c 12 d 20
- 1255** a 15 b 6 c 9 d 21
- 1256** a AB = 7,5 cm b $\angle A = 37^\circ$ $\angle B = 53^\circ$
- 1257** Ja
- 1258** a 60 kr b 30 kr
- 1259** a $3 + \frac{1}{5}$ b $4 + \frac{1}{2}$ c $9 + \frac{1}{7}$ d $8 + \frac{3}{4}$ e $3 + \frac{2}{3}$ f $8 + \frac{3}{4}$
- 1260** a $\frac{2}{6} = \frac{1}{3}$ b $\frac{1}{12}$ c $\frac{13}{12} = 1 + \frac{1}{12}$ d $\frac{12}{8} = 1 + \frac{4}{8} = 1 + \frac{1}{2}$
e $\frac{4}{9}$ f $\frac{11}{9} = 1 + \frac{2}{9}$ g $\frac{8}{8} = 1$ h $\frac{8}{16} = \frac{1}{2}$
- 1261** a 34 m b 3400 cm c 48 km d 6,39 m e 14,87 dm f 1700 m
- 1262** a ≈ 700 b ≈ 900 c ≈ 500 d ≈ 600
e ≈ 200 f ≈ 100 g ≈ 500 h ≈ 700
- 1263** a 21 b 14 c 24 d 18 e 6 f 10
- 1264** a 80 km b 25100 cm c 35000 dm d 3500 mm
- 1265** a 142 b 77 c 87 d 21
e 531 f 800 g 25 h 66
- 1266** a 7 tímar 45 minuttir b 8 tímar 20 minuttir
c 2 tímar 20 minuttir d 7 tímar 25 minuttir
- 1267** $\angle A \approx 35^\circ$ $\angle B \approx 50^\circ$ $\angle C \approx 8^\circ$ $\angle D \approx 78^\circ$ $\angle E \approx 115^\circ$
- 1268** a 3317 b 317 c 855 d 3143
e 2152 f 1782 g 259 h 2507
- 1269** a x = 5 b x = 4 c x = 6 d x = 7 e x = 7 f x = 4
- 1270** a 3600 sek b 86 400 sek c 2 678 400 sek
- 1271** a Skurðpunkt: (6,-5) b Vinklarnir: 90°
- 1272** a 230 km b 1450 km (5060 km - 2 · 1805 km)
- 1273** a Skurðpunkt: (-6,-1) b Vinklarnir: 53° og 127°

1274 a 100,8 b 127,2 c 3,75 d 11,7
 e 73,04 f 189,7 g 66,72 h 382

1275 a $U = 46 \text{ cm}$ $V = 120 \text{ cm}^2$
 b $U = 356 \text{ cm} = 3,56 \text{ m}$ $V = 6960 \text{ cm}^2 = 0,696 \text{ m}^2$
 c $U = 680 \text{ cm} = 6,8 \text{ m}$ $V = 22\,500 \text{ cm}^2 = 2,25 \text{ m}^2$
 d $U = 350 \text{ cm} = 3,5 \text{ m}$ $V = 7500 \text{ cm}^2 = 0,75 \text{ m}^2$

13 Høvuðbrýggj

1 11, 13, 17, 19, 23, 29, 31, 37, 41, 43 og 47

2 Bókstavirnar sært tú á tekningini høgrumegin.

Mest brúka strika: **c**

a 0 2 3 5 6 7 8 9 (í 8 tølum)

b 0 1 2 3 4 7 8 9 (í 8 tølum)

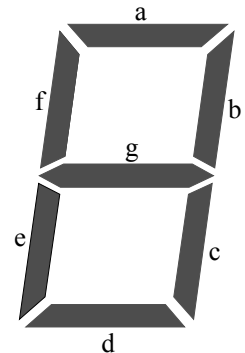
c 0 1 3 4 5 6 7 8 9 (í 9 tølum)

d 0 2 3 5 6 8 9 (í 7 tølum)

e 0 2 6 8 (í 4 tølum)

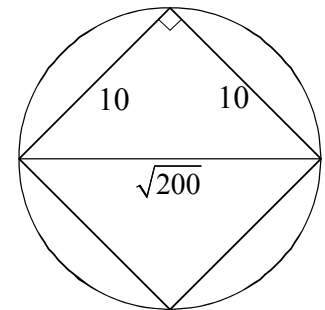
f 0 4 5 6 8 9 (í 6 tølum)

g 2 3 4 5 6 8 9 (í 7 tølum)



3 36 kantar og 14 flatar

4 $\sqrt{200} \approx 14,1$ cm (sí tekning)



5 5 smáir terningar

6 5 smáir terningar

7 6 smáir terningar

8 12 smáir terningar

9 14 smáir terningar

10

1	2	4	8
5	3	2	3
7	7	1	6
2	6	3	9

11

24	4,5	3	19,5
7,5	15	16,5	12
13,5	9	10,5	18
6	22,5	21	1,5

12

19,2	3,6	2,4	15,6
6	12	13,2	9,6
10,8	7,2	8,4	14,4
4,8	18	16,8	1,2

13

43,2	8,1	5,4	35,1
13,5	27	29,7	21,6
24,3	16,2	18,9	32,4
10,8	40,5	37,8	2,7

- 14** $37 \cdot 3 = 0111$ *Aftasti talstavur veksur við 1, og*
 $37 \cdot 6 = 0222$ *báðir talstavnir í miðjuni veksa við 11.*
 $37 \cdot 9 = 0333$
 $37 \cdot 12 = 0444$
 $37 \cdot 15 = 0555$
 $37 \cdot 18 = 0666$
 $37 \cdot 21 = 0777$
 $37 \cdot 24 = 0888$
 $37 \cdot 27 = 0999$
 $37 \cdot 30 = 1110$ *Mentunar gera, at úrslitið verður 1110, men so heldur fram:*
 $37 \cdot 33 = 1221$ *Aftasti talstavur veksur við 1, og*
 $37 \cdot 36 = 1332$ *báðir talstavnir í miðjuni veksa við 11.*
 $37 \cdot 39 = 1443$
 $37 \cdot 42 = 1554$
 $37 \cdot 45 = 1665$
 $37 \cdot 48 = 1776$
 $37 \cdot 51 = 1887$
 $37 \cdot 54 = 1998$
 $37 \cdot 57 = 2109$ *Mentunar gera, at úrslitið verður 2109.*
 $37 \cdot 60 = 2220$ *Mentan ger, at úrslitið verður 2220, men so heldur fram:*
 $37 \cdot 63 = 2331$ *Aftasti talstavur veksur við 1, og*
 $37 \cdot 66 = 2442$ *báðir talstavnir í miðjuni veksa við 11.*

15

1,60	22,40	24	6,40
19,20	11,20	9,60	14,40
12,80	17,60	16	8
20,80	3,20	4,80	25,60

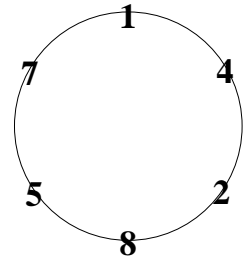
- 16** $3367 \cdot 33 = 111111$
 $3367 \cdot 66 = 222222$
 $3367 \cdot 99 = 333333$
 $3367 \cdot 132 = 444444$
 $3367 \cdot 165 = 555555$
 $3367 \cdot 198 = 666666$
 $3367 \cdot 231 = 777777$
 $3367 \cdot 264 = 888888$
 $3367 \cdot 297 = 999999$
 $3367 \cdot 330 = 1111110$ *Nú broytist mynstrið; men*
 $3367 \cdot 363 = 1222221$ *11–tabellin sæst framvegis.*

- 17** $9999 \cdot 1 = 09999$
 $9999 \cdot 2 = 19998$
 $9999 \cdot 3 = 29997$
 $9999 \cdot 4 = 39996$
 $9999 \cdot 5 = 49995$
 $9999 \cdot 6 = 59994$
 $9999 \cdot 7 = 69993$
 $9999 \cdot 8 = 79992$
 $9999 \cdot 9 = 89991$
 $9999 \cdot 10 = 99990$
 $9999 \cdot 11 = 109989$
 $9999 \cdot 12 = 119988$
 $9999 \cdot 13 = 129987$

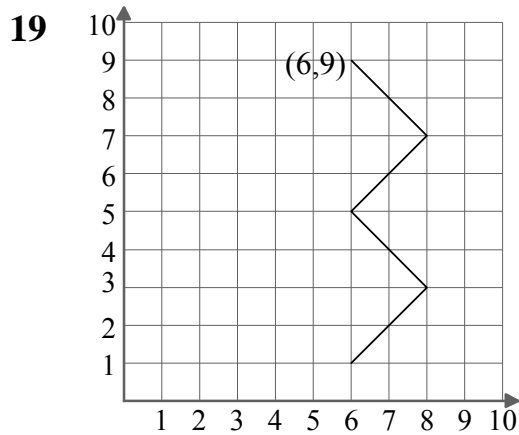
Vit leggja 10 000 aftrat ovara talinum og taka 1 burturav.

- 18** $1 \cdot 142857 = 142857$
 $2 \cdot 142857 = 285714$
 $3 \cdot 142857 = 428571$
 $4 \cdot 142857 = 571428$
 $5 \cdot 142857 = 714285$
 $6 \cdot 142857 = 857142$
 $7 \cdot 142857 = 999999$

Tá ið vit vita síðsta talstav, mala vit við urinum eftir sirklinum.

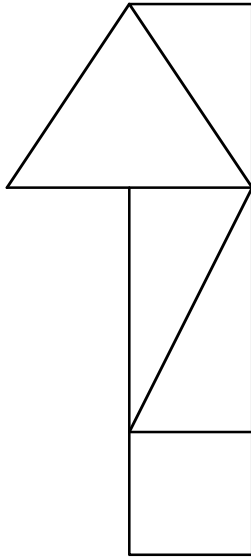


Nú ber ikki til longur.

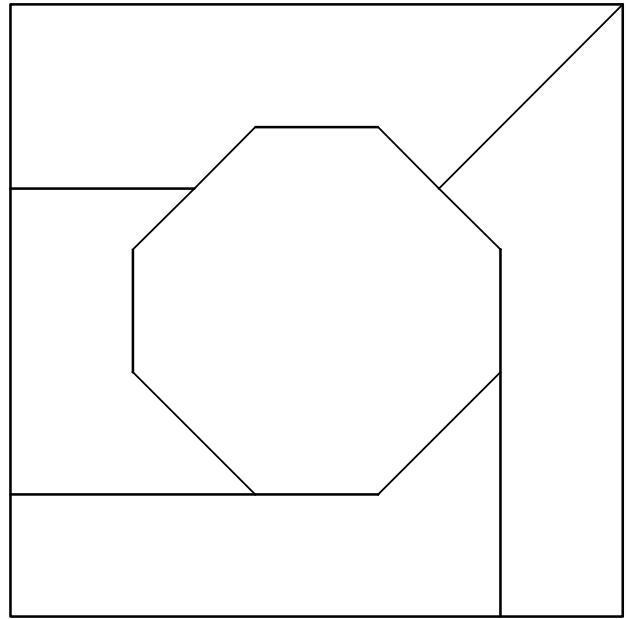


- 20** $48 - 16$. Vit falda við 6, og býta so við 3.

21 21
22




22



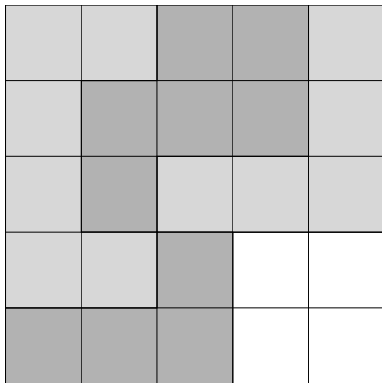
23 25 – 50. Vit draga 1 frá, og falda so við 2.


24 25 – 125 – 36 – 216 (Talraðið er: 2^2 , 2^3 , 3^2 , 3^3 , 4^2 , 4^3 , 5^2 , 5^3 , 6^2 og 6^3)

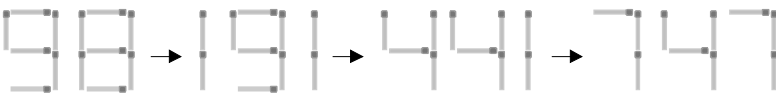
25 3 – 12. Frá hægri: Vit falda við 2, og so býta vit við 4.

26 T.d. 

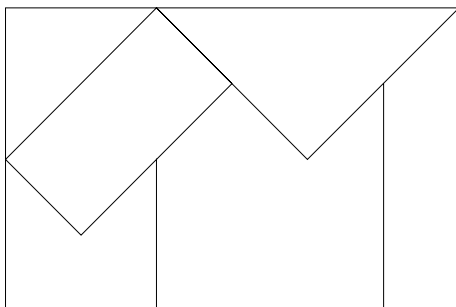
27



28 T.d. 

29 T.d. 

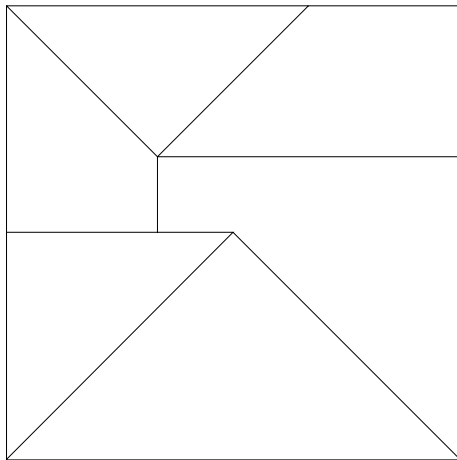
30



31	1	4	9	16	25	36	49	64	81	100	121	144	169	196	225
	a	á	b	d	ð	e	f	g	h	i	í	j	k	l	m

32 32 – 64. Vit býta við 3, og falda so við 2

33



34 Skapið b

35	1	3	6	10	15	21	28	36	45	55	66	78	91	105	120
	a	á	b	d	ð	e	f	g	h	i	í	j	k	l	m

Hesin formilin kann brúkast: $\frac{n_r(n_r + 1)}{2}$

36 25 – 50. Vit leggja 16 aftrat, og býta so við 2

37 64 – 27 – 8 – 1 ($7^3, 6^3, 5^3 \dots$)