



Ia

Nemendabók

Lausnir

Efnisyfirlit

| | | |
|---|--------------------|----|
| 1 | Heilar tölur | 2 |
| 2 | Tölfræði | 8 |
| 3 | Tugabrot | 10 |
| 4 | Rúmfræði | 15 |

I Heilar tölur

Bls. 5

- I.1** Reykjavík – Akranes 49 km
 Akureyri – Egilsstaðir 265 km
 Selfoss – Hvalsvöllur 49 km
 Reykjavík – Borgarnes 86 km
 Höfn – Reyðarfjörður 278 km

I.2 a 98 km **b** 544 km **c** 212 km

I.3
344 km

I.4
300 km/dag

I.5
57 km

I.6
Mismunandi svör

Bls. 6

I.7

a

| Reykjavík | Moskva |
|-----------|--------|
| 14:00 | 17:00 |
| 21:00 | 24:00 |
| 07:00 | 10:00 |
| 16:45 | 19:45 |

b

| Reykjavík | Moskva |
|-----------|--------|
| 06:00 | 09:00 |
| 09:00 | 12:00 |
| 15:00 | 18:00 |
| 13:45 | 16:45 |

I.8

a

| Reykjavík | Chicago |
|-----------|---------|
| 14:00 | 08:00 |
| 19:00 | 13:00 |
| 11:15 | 05:15 |

b

| Reykjavík | Chicago |
|-----------|---------|
| 17:00 | 11:00 |
| 21:30 | 15:30 |
| 09:00 | 03:00 |

I.9
a 07:00 **a** 18:30

I.10
a 10:00 **a** 06:30

Bls. 7

I.11
7 gráðum

I.12
39 gráðum

I.13
30 gráður

I.14
-14 gráður

I.15
a 32° **c** 22° **e** -3°
b 27° **d** 2° **f** 2°

I.16

a 7° **c** 5° **e** 8°
b 15° **d** 12° **f** 9°

Bls. 8

I.17

a -4 gráður **c** 10 gráður
b -10 gráður **d** -8 gráður

I.18

a Helsinki **c** 14 gráðum
b 8 gráðum
kaldara

d

| Borg | Hitastig |
|---------------|----------|
| Helsinki | -8° |
| Stokkhólmur | -4° |
| Reykjavík | 0° |
| Osló | 2° |
| Kaupmannahöfn | 6° |

Bls. 9

I.19

b 4 gráður 6 gráður 5 gráður 4 gráður

I.20

a 5 **b** -4 **c** -7 **d** -6
4 -4 0 -3
-5 -2 -4 -9

I.21

a -7, -5, -2, 0, 4, 5, 7, 8
b -50, -30, -20, 0, 20, 40, 70, 200

Bls. 10

I.22

a 14 m **b** 9 m

I.23

ca. 430 m

I.24

a 4 **b** 4 **c** 40
5 20 40

Bls. 11

I.25

a 26 **b** 80 **c** 40
75 100 60
50 34 75

Bls. 12

I.26

a 60 **c** 4 **e** 700
b 4000 **d** 40

I.27

a 400 **c** 1000 **e** 30 000
b 30 **d** 300

I.28

- a** 256, 265, 526, 562, 625, 652
b 1224, 1242, 2124, 2412, 2421, 4221

Bls. 13

I.29

- a** 654 **b** 456 **c** 198

I.30

- a** $400 + 10 + 6$
b $10 + 6$
c $50 + 8$
d $70 + 7$
e $2000 + 100 + 50 + 3$
f $400 + 3$ eða $400 + 0 + 3$
g $5000 + 80 + 7$ eða $5000 + 0 + 80 + 7$

I.31

- a** 264 **b** 4343 **c** 508
 395 3571 4017

I.32

- a** 37 **c** 464 **e** 612
b 94 **d** 35 **f** 3175

I.33

- a** 9753 **b** 3579 **c** 6174

I.34 Mismunandi svör

Bls. 14

I.35

520 kr.

I.36

- a** 630 kr. **b** 370 kr.

I.37 Til dæmis:

- 2 blöð, 2 kökusneiðar
 2 hnetupoka, 1 gos, 1 súkkulaði, 1 safa, 1 blað
 2 hnetupoka, 2 gos, 2 safa, 1 súkkulaði

I.38

- a** 27 **b** 4 **c** 38
 29 3 32
 32 4 35
 41 5 20

Bls. 15

I.39

- a** 55 **b** 66 **c** 72
 63 91 76
 172 124 121

I.40

- a** 56 **b** 39 **c** 44
 44 42 45
 122 94 86

Bls. 16

I.41

- a** 13 **b** 17 **c** 25
 24 14 27

I.42

- a** 27 **b** 31 **c** 15
 14 17 12

I.43

- a** 47 **b** 27 **c** 175
 64 19 432
 82 27 333

Bls. 17

I.44

- | a | -10 | +10 | b | -20 | +20 |
|----------|-----|-----|----------|-----|-----|
| | 54 | 64 | 74 | 12 | 32 |
| | 62 | 72 | 82 | 19 | 39 |
| | 28 | 38 | 48 | 25 | 45 |
| | 14 | 24 | 34 | 49 | 69 |

I.45

- | a | -15 | +15 | b | -25 | +25 |
|----------|-----|-----|----------|-----|-----|
| | 26 | 41 | 56 | 4 | 29 |
| | 18 | 33 | 48 | 17 | 42 |
| | 47 | 62 | 77 | 30 | 55 |
| | 60 | 75 | 90 | 55 | 80 |

I.46

- | a | -23 | +23 | b | -46 | +46 |
|----------|-----|-----|----------|-----|-----|
| | 0 | 23 | 46 | 0 | 46 |
| | 22 | 45 | 68 | 13 | 59 |
| | 40 | 63 | 86 | 26 | 72 |
| | 57 | 80 | 103 | 104 | 150 |

I.47

- | a | -120 | +120 | b | -250 | +250 |
|----------|------|------|----------|------|------|
| | 80 | 200 | 320 | 10 | 260 |
| | 50 | 170 | 290 | 130 | 380 |
| | 250 | 370 | 490 | 330 | 580 |
| | 300 | 420 | 540 | 480 | 730 |

Bls. 18

I.48

- a** 73 og 73 **b** 58 og 58 **c** 80 og 80

I.49

- a** 57 kr. **b** 63 kr. **c** 69 kr.
 54 kr. 47 kr. 94 kr.
 67 kr. 84 kr. 77 kr.

I.50

| | | |
|-------------|-------------|-------------|
| a 65 | b 89 | c 65 |
| 42 | 101 | 82 |
| 72 | 72 | 76 |

I.51

| | | |
|--------------|--------------|--------------|
| a 153 | b 182 | c 385 |
| 185 | 296 | 175 |
| 199 | 255 | 280 |

Bls. 19

I.52

| | | |
|-------------|-------------|-------------|
| a 12 | b 12 | c 14 |
| 14 | 32 | 44 |
| 13 | 42 | 54 |

I.53

| | | |
|-------------|-------------|-------------|
| a 23 | b 34 | c 32 |
| 13 | 23 | 44 |
| 23 | 13 | 52 |

I.54

| | | |
|-------------|-------------|-------------|
| a 38 | b 44 | c 19 |
| 34 | 41 | 26 |
| 42 | 67 | 10 |

Bls. 21

I.55

$319 = 300 + 10 + 9$
 $174 = 100 + 70 + 4$
 $70 = 70$
 $223 = 200 + 20 + 3$
 $319 = 300 + 10 + 9$
 $70 = 70$
 $250 = 200 + 50$
 $649 = 600 + 40 + 9$
 $200 = 200$
 $798 = 700 + 90 + 8$

I.56

| | | |
|------------------|------------------|-------------------|
| a 270 kr. | c 389 kr. | e 244 kr. |
| b 450 kr. | d 968 kr. | f 1021 kr. |

I.57

| | | |
|--------------|--------------|--------------|
| a 646 | b 733 | c 262 |
| 383 | 539 | 361 |

Bls. 22

I.58

| | | |
|------------------|------------------|------------------|
| a 444 kr. | b 792 kr. | c 693 kr. |
|------------------|------------------|------------------|

I.59

| | | |
|------------------|------------------|-------------------|
| a 839 kr. | b 963 kr. | c 1046 kr. |
|------------------|------------------|-------------------|

Bls. 23

I.60

| | | | |
|--------------|---------------|---------------|---------------|
| a 787 | b 1452 | c 1908 | d 1356 |
|--------------|---------------|---------------|---------------|

I.61

| | | | |
|--------------|--------------|--------------|--------------|
| a 686 | b 841 | c 875 | d 843 |
|--------------|--------------|--------------|--------------|

I.62

| | | | |
|--------------|--------------|--------------|--------------|
| a 931 | b 345 | c 576 | d 921 |
|--------------|--------------|--------------|--------------|

I.63

| | | | |
|---------------|---------------|---------------|---------------|
| a 1395 | b 1681 | c 1364 | d 1597 |
|---------------|---------------|---------------|---------------|

I.64

| | | |
|--------------|--------------|--------------|
| a 723 | b 814 | c 420 |
| 765 | 219 | 1245 |

I.65

| | | | |
|---------------|---------------|---------------|---------------|
| a 2155 | b 1695 | c 1423 | d 1915 |
|---------------|---------------|---------------|---------------|

I.66

| | | | |
|---------------|---------------|---------------|-----------------|
| a 5688 | b 8317 | c 5146 | d 12 417 |
|---------------|---------------|---------------|-----------------|

Bls. 24

I.67 278 kr.**I.68** 164 kr.

Bls. 25

I.69

| | |
|-----------------|-----------------|
| a 82 kr. | b 82 kr. |
|-----------------|-----------------|

I.70

| | | | |
|------------------|------------------|------------------|------------------|
| a 182 kr. | b 403 kr. | c 252 kr. | d 143 kr. |
|------------------|------------------|------------------|------------------|

I.71

| | | | |
|--------------|--------------|--------------|--------------|
| a 134 | b 277 | c 262 | d 269 |
|--------------|--------------|--------------|--------------|

I.72

| | | | |
|--------------|--------------|--------------|--------------|
| a 213 | b 281 | c 165 | d 306 |
|--------------|--------------|--------------|--------------|

I.73

| | | | |
|--------------|--------------|--------------|--------------|
| a 234 | b 154 | c 171 | d 186 |
|--------------|--------------|--------------|--------------|

I.74

| | | | |
|--------------|--------------|--------------|--------------|
| a 216 | b 199 | c 645 | d 175 |
|--------------|--------------|--------------|--------------|

Bls. 26

I.75

| | |
|-----------------|------------------|
| a 40 kr. | b 103 kr. |
|-----------------|------------------|

I.76

| | |
|------------------|------------------|
| a 277 kr. | b 174 kr. |
|------------------|------------------|

I.77

| | | |
|--------------|--------------|--------------|
| a 208 | b 693 | c 189 |
| 364 | 145 | 444 |

Bls. 27

I.78

| | | |
|--------------|--------------|--------------|
| a 186 | b 496 | c 192 |
|--------------|--------------|--------------|

I.79**a** 228 **b** 373 **c** 158**I.80****a** 175 **b** 326 **c** 123**I.81****a** 127 **b** 337 **c** 145**I.82**

| | | |
|--------------|--------------|--------------|
| a 403 | b 246 | c 525 |
| 314 | 416 | 339 |
| 214 | 185 | 144 |

I.83**a** 2835 **b** 3526 **c** 735**I.84****a** 14 232 **b** 45 126 **c** 11 091**I.85**

| | |
|---------------|---------------|
| a 9119 | b 7313 |
| 6619 | 4745 |
| 26 772 | 4492 |

Bls. 28

I.86

322 kr.

I.87

51 kr.

I.88

199 kr.

Bls. 29

I.89

818 kr.

I.90

57 kr.

I.91

9 kr.

I.92

184 kr.

I.93**a** 1165 kr. **b** 335 kr. **c** 90 kr.**I.94** Mismunandi svör**I.95****a** 33 **b** 44 **c** 252 **d** 223**I.96**

| | | |
|--------------|--------------|---------------|
| a 437 | b 422 | c 2475 |
| + 159 | 147 | - 1843 |
| <u>596</u> | + 303 | <u>0632</u> |
| | 872 | |

Bls. 30

I.97**a** 30 kr. **b** 42 kr. **c** 35 kr.**I.98****a** 20 kr. **b** 40 kr. **c** 60 kr.**I.99**

| | | | |
|-------------|-------------|-------------|-------------|
| a 28 | b 49 | c 63 | d 45 |
| 42 | 36 | 36 | 54 |
| 24 | 21 | 64 | 27 |

I.100**a** 6 **b** 4 **c** 12**I.101****a** 6 **b** 8 **c** 9**I.102**

| | | |
|------------|------------|------------|
| a 4 | b 7 | c 7 |
| 3 | 9 | 8 |
| 9 | 4 | 9 |

I.103

| | | |
|-------------|-------------|------------|
| a 11 | b 20 | c 4 |
| 3 | 25 | 11 |

Bls. 31

I.104**a** 55 kr. **b** 90 kr. **c** 70 kr.**I.105****a** 48 kr. **b** 84 kr.**I.106****a** 53 kr. **b** 63 kr.

Bls. 32

I.107**a** 24 **b** 30 **c** 42**I.108****a** 24 **b** 48 **c** 40 **d** 96**I.109**

| | | |
|-------------|-------------|--------------|
| a 64 | c 80 | e 120 |
| b 72 | d 40 | f 160 |

Bls. 33

I.110

| | | |
|---------------|---------------|----------------|
| A: 7 · 4 = 28 | C: 4 · 7 = 28 | E: 12 · 2 = 24 |
| B: 5 · 5 = 25 | D: 7 · 3 = 21 | |

I.111

Mismunandi svör

I.113

| | | | | | |
|---|---|-----------|-----------|-----------|-----------|
| a | · | 3 | 5 | 7 | 9 |
| | 2 | 6 | 10 | 14 | 18 |
| | 5 | 15 | 25 | 35 | 45 |
| | 6 | 18 | 30 | 42 | 54 |
| | 8 | 24 | 40 | 56 | 72 |

I.112 a og b

Mismunandi svör

| | | | | | |
|---|----------|-----------|-----------|-----------|-----------|
| b | · | 5 | 6 | 8 | 4 |
| | 3 | 15 | 18 | 24 | 12 |
| | 4 | 20 | 24 | 32 | 16 |
| | 7 | 35 | 42 | 56 | 28 |
| | 8 | 40 | 48 | 64 | 32 |

Bls. 34

I.114

| | | | |
|------------|------------|------------|------------|
| a 7 | c 6 | e 8 | g 8 |
| b 9 | d 9 | f 5 | h 8 |

Bls. 35

I.115

| | | | |
|-------------|------------|------------|------------|
| a 16 | b 8 | c 4 | d 2 |
|-------------|------------|------------|------------|

I.116

| | |
|-------------|------------|
| a 12 | b 4 |
|-------------|------------|

I.117

| | | | |
|------------|------------|------------|------------|
| a 7 | b 7 | c 4 | d 2 |
| 9 | 6 | 6 | 4 |
| 8 | 9 | 7 | 5 |

I.118

| | | |
|--------------|--------------|--------------|
| $18 : 9 = 2$ | $24 : 8 = 3$ | $25 : 5 = 5$ |
| $12 : 6 = 2$ | $21 : 7 = 3$ | $15 : 3 = 5$ |

Mismunandi svör

Bls. 36

I.119

| | |
|------------|------------|
| a 6 | b 3 |
| 4 | 6 |

I.120

| | | |
|------------|------------|------------|
| a 8 | b 8 | c 8 |
| 6 | 8 | 7 |
| 8 | 12 | 14 |

I.121

| | |
|------------|------------|
| a 8 | b 6 |
| 7 | 12 |

I.122

| | | |
|------------|------------|------------|
| a 4 | b 4 | c 5 |
| 7 | 9 | 4 |

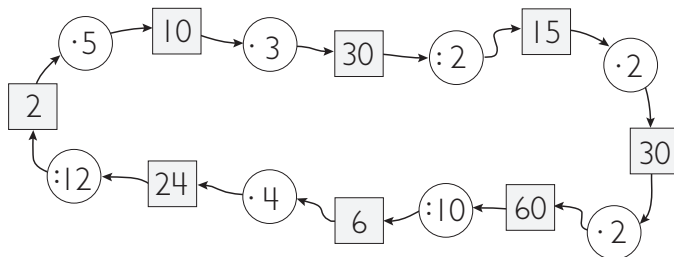
Bls. 37

I.123

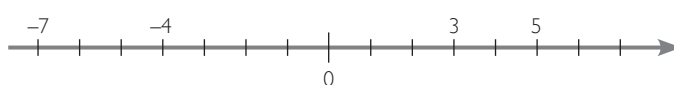
| | | |
|------------|------------|------------|
| a 6 | b 8 | c 3 |
| 7 | 4 | 13 |

I.124

| | | |
|-------------------|--------------------|--------------------|
| a $84 : 7$ | b $88 : 11$ | c $68 : 17$ |
| $84 : 12$ | $88 : 8$ | $68 : 4$ |

I.125

Bls. 40–41

Próf**I****2**

| | | |
|------------|------------|-------------|
| a 9 | b 6 | c 11 |
|------------|------------|-------------|

3

| | | |
|-------------|--------------|------------|
| a 70 | b 100 | c 7 |
|-------------|--------------|------------|

4

| | | |
|--------------|---------------|---------------|
| a 345 | b 4789 | c 5087 |
|--------------|---------------|---------------|

5

| | |
|--------------------------------------|--------------------------------|
| a $400 + 10 + 6$ | c $4000 + 100 + 80 + 7$ |
| b $300 + 0 + 2$ eða $300 + 2$ | |

6

152, 251, 326, 512, 623, 632

7

| | | |
|-------------|-------------|-------------|
| a 62 | b 12 | c 43 |
| 55 | 32 | 68 |
| 93 | 28 | 23 |

8

| | | | |
|--------------|--------------|--------------|--------------|
| a 582 | b 574 | c 191 | d 287 |
|--------------|--------------|--------------|--------------|

9

| | | |
|--------------|--------------|---------------|
| a 645 | b 226 | c 2088 |
| 4894 | 144 | 2665 |

10

| | | |
|-------------|-------------|-------------|
| a 28 | b 24 | c 56 |
| 27 | 36 | 45 |

11

| | | |
|------------|------------|------------|
| a 6 | b 5 | c 6 |
| 2 | 6 | 3 |

I 2**a** 24 kr. **b** 21 kr.**I 3****a** 7 **b** 14**I 4** 9 kr.

Bls. 42

Æfingasíða 1**I.126****a** $200 + 30 + 5$ **b** $500 + 60 + 1$ **I.127****a** 30 **b** 7 **c** 900 **d** 5
8 900 4000 0**I.128****a** 459 **b** 408 **c** 3477
374 670 4582
555 309 5075**I.129****a** $30 + 2$ **b** $400 + 10 + 8$
 $40 + 5$ $300 + 20 + 5$
 $20 + 9$ $500 + 0 + 7$ eða $500 + 7$ **c** $400 + 90 + 0$ eða $400 + 90$
 $3000 + 700 + 80 + 2$
 $4000 + 0 + 30 + 5$ eða $4000 + 30 + 5$ **I.130** 134, 143, 324, 342, 343, 423, 431, 432**I.131****a** 33 **b** 34 **c** 15
31 14 13**I.132****a** 77 **b** 23 **c** 64
82 19 13

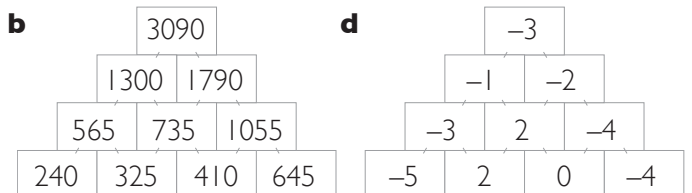
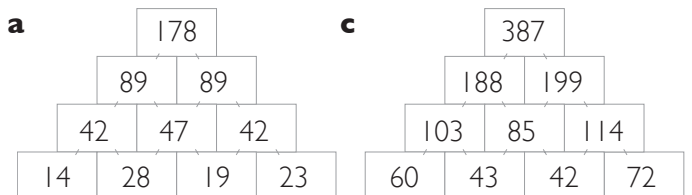
Bls. 43

Æfingasíða 2**I.133****a** 87 **b** 738 **c** 837
93 158 765
136 372 1419**I.134****a** 13 **b** 332 **c** 206
33 512 172
26 231 275**I.135****a** 57 **b** 13 **c** 72
57 25 85
74 16 24**I.136****a** 589 **b** 223 **c** 854
858 227 762
726 481 164

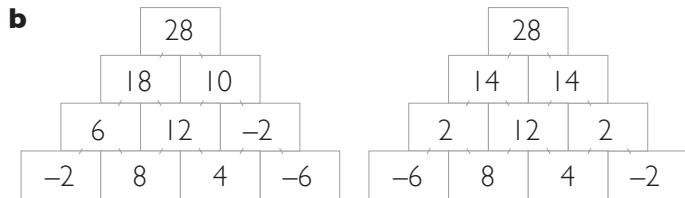
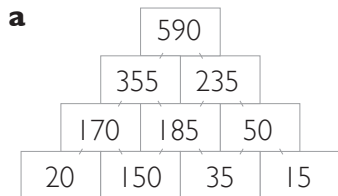
Bls. 44

Æfingasíða 3**I.137****a** $-7, -5, -2, 0, 3, 7, 9, 10$
b $-10, -9, -6, 3, 8, 13, 16, 20$
c $-24, -9, -7, 0, 7, 9, 24, 42$ **I.138****a** 5 **b** 7 **c** 3
3 4 6
4 15 25**I.139****a** 4 **b** 3 **c** -3
4 -7 -5
1 6 -15 **I.140****a** 30, 36, 42 **b** 55, 66, 77 **c** 75, 90, 105 **d** 78, 65, 52**I.141****a** $-10, -15, -20$ **c** 4, 0, -4
b $-7, -14, -21$ **d** 2, $-4, -10$

Bls. 45

Geturðu þetta?**I.142**

I.143



Valkostur: 1

Valkostur: 2

2 Tölfræði

Bls. 47

2.1

a 9 **b** Hvít

2.2 Mismunandi svör

Bls. 48

2.3

a 26 **b** Karamellubúðingur

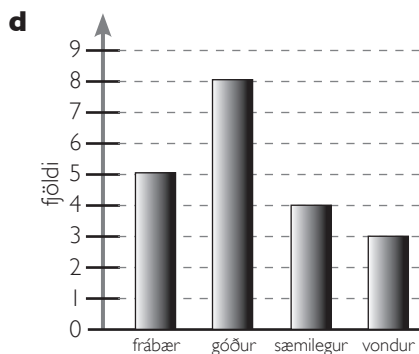
c Karamellubúðingur, frómas, súkkulaðibúðingur, jarðarber með rjóma, ís

2.3 Mismunandi svör

Bls. 49

2.5

a 20 **b** 4 **c** 13



2.6

a

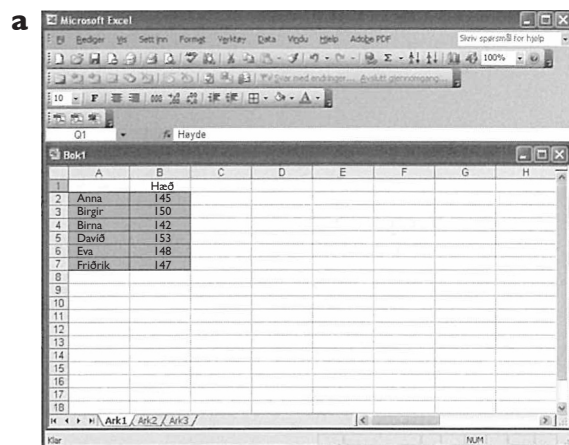
| Svör | Fjöldi |
|-----------|--------|
| frábær | 6 |
| góður | 11 |
| sæmilegur | 4 |
| vondur | 7 |

b 28

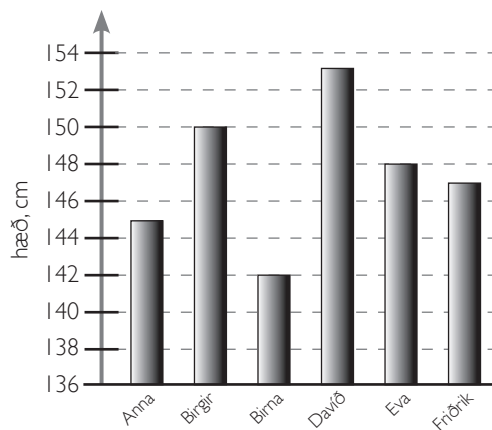
c 17

Bls. 51

2.7



b



2.8

a Andrés önd

c Lukku-Láki

b Lukku-Láki

d Ástríkur

2.9 Mismunandi svör

Bls. 52

2.10

a 1 **b** 3 **c** 1

2.11 Mismunandi svör

Bls. 53

2.12

a 3 – 4 – 5 – 6 – 6

Tíðasta gildi: 6

b 22 – 23 – 25 – 25 – 26 – 27 – 29

Miðgildi: 25

Tíðasta gildi: 25

c 79 – 81 – 81 – 81 – 82 – 84 – 84 – 85 – 85

Miðgildi: 82

Tíðasta gildi: 81

2.13

a 182 – 205 – 227 – 251 – 268 – 280 – 308

b 251 **c** 268

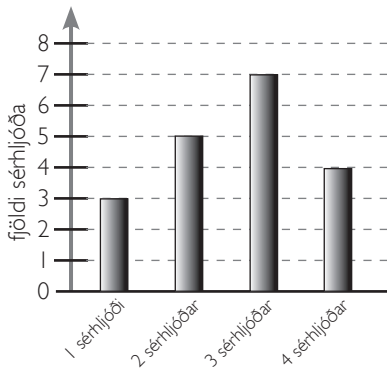
Bls. 54

2.14

- a 1 km b 2 km c 17 d 24

2.15

- a b 3
c 3



Bls. 55

2.16

- a 2 - 2 - 2 - 4 - 4 - 4 - 4 - 4 - 4 - 5 - 5 - 5 - 6 - 6
- 7 - 7 - 7 - 7 - 8
- b 5 c 4

2.17

- a 1 - 2 - 2 - 4 - 5 - 6
Miðgildi: 3
- b 11 - 12 - 13 - 13 - 14 - 15
Miðgildi: 13
- c 34 - 35 - 35 - 40 - 46 - 48 - 49 - 53
Miðgildi: 43

2.18 Mismunandi svör

Bls. 56

2.19

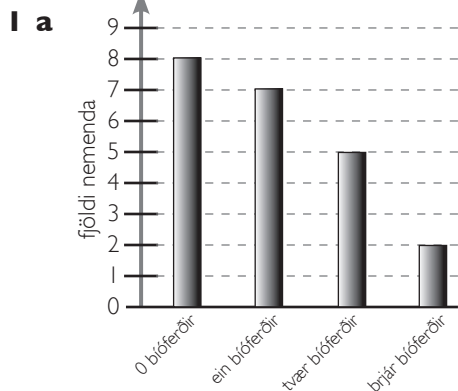
a

| Vökvun | Hæsta plantan | Lægsta plantan |
|----------|---------------|----------------|
| Vatn | 9 cm | 6 cm |
| Grænsápa | 10 cm | 4 cm |
| Te | 8 cm | 4 cm |

- b Vatn: 8 c Vatn: 37 cm d Vatn
- Grænsápa: 6 Grænsápa: 32 cm
- Te: 5 Te: 29 cm

Bls. 58

Próf



- b 0 c 22

d 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 1 - 1 - 1 - 1 - 1 - 1
- 1 - 2 - 2 - 2 - 2 - 2 - 3 - 3

e 1

2

- a Hjólandi b 36 c 7

3

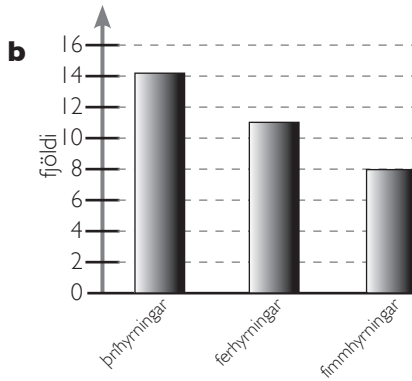
- a Tíðasta gildi: 5 b Tíðasta gildi: 127 c Tíðasta gildi: 64
Miðgildi: 6 Miðgildi: 124 Miðgildi: 65

Bls. 59

Æfingasíða 1

2.20

- a Þríhyrningar: 14
Ferhyrningar: 11
Fimmhyrningar: 8



2.21

- a -3 gráður b kl. 15:00 c 6 gráður d 6 gráður
- 9 gráður
- 10 gráður

Bls. 60

Æfingasíða 2

2.22

- a 9,8 - 9,9 - 10,1 - 10,2 - 10,3 - 10,5 - 10,7 - 10,7
- 10,7 - 10,9 - 11,2 - 11,2 - 11,6
- b Miðgildi: 10,7
Tíðasta gildi: 10,7

2.23

- a 100 gráður b 50 gráður c 10 gráður d 10 mínútur
- 5 gráður 35 mínútur

Bls. 61

Geturðu þetta?

2.24

- Höfn í febrúar Blönduós í maí

2.25

- Álaborg í júní Tromsø í febrúar
- Akureyri í apríl Múrmansk í mars

3 Tugabrot

Bls. 63

3.1 Mismunandi svör

3.2

A = 0,8 l

B = 0,5 l

C = 0,9 l

D = 0,4 l

3.3

0,9 l

3.4

0,4 l

3.5

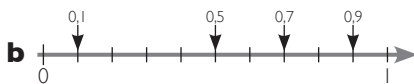
2,6 l

Bls. 64

3.6

a A = 0,2

B = 0,8



3.7

0,1 - 0,3 - 0,4 - 0,7 - 0,8 - 1,0

3.8

2,5 - 2,3 - 2,1 - 1,9 - 1,4 - 0,8 - 0,7

3.9

a 0,7

b 0,3

c 0,6

Bls. 65

3.10

a 0,3

b 0,6

c 0,7

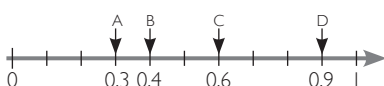
3.11

a 0,7

b 1,1

c 0,4

3.12



A = 0,3

B = 0,4

C = 0,6

D = 0,9

Bls. 66

3.13

a Björg

b Ívar

c 0,89 m

d Jón

e

| Nöfn | Vegalengd |
|--------|-----------|
| Björg | 6,51 m |
| Gunnar | 6,23 m |
| Jón | 5,82 m |
| Sigrún | 4,96 m |
| Pétur | 4,07 m |
| María | 3,56 m |
| Anja | 3,44 m |
| Ívar | 3,41 m |

3.14

| Dýr | Hæð |
|---------------------|--------|
| górilla (karldýr) | 1,83 m |
| górilla (kvendýr) | 1,49 m |
| órangútan (karldýr) | 1,42 m |
| simpansi (karldýr) | 1,40 m |
| simpansi (kvendýr) | 1,21 m |
| refapi (karldýr) | 1,18 m |
| órangútan (kvendýr) | 1,08 m |
| gibbonapi (karldýr) | 0,89 m |

Bls. 67

3.15

A = 0,04

B = 0,07

C = 0,12

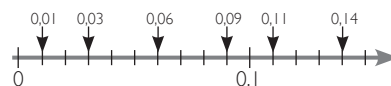
3.16

a 0,08

b 0,05

c 0,02

3.17



3.18

0,03 - 0,04 - 0,07 - 0,09 - 0,12 - 0,16 - 0,21

Bls. 68

3.19

a 0,40

b 0,60

c 0,70

d 0,90

3.20

a 0,3

b 0,1

c 0,8

d 0,6

3.21

a 0,3

b 0,9

c 0,8

3.22

a, b og c

Mismunandi svör

Bls. 69

3.23

| A | B |
|-----|-----|
| 0,4 | 0,6 |
| 0,1 | 0,9 |
| 1,0 | 0,0 |
| 0,3 | 0,7 |
| 0,7 | 0,3 |
| 0,5 | 0,5 |

3.24

| A | B |
|------|------|
| 0,22 | 0,78 |
| 0,17 | 0,83 |
| 0,91 | 0,09 |
| 0,42 | 0,58 |
| 0,33 | 0,67 |

3.25

a 0,1 - 0,20 - 0,35 - 0,4 - 0,52 - 0,7

b 0,17 - 0,3 - 0,34 - 0,52 - 0,6 - 1

3.26

a 0,8 - 1 - 1,2

c 0,24 - 0,30 - 0,36

b 2,8 - 3,5 - 4,2

d 0,6 - 0,75 - 0,9

Bls. 70

3.27

a 7 **b** 0,7 **c** 300 **d** 2

3.28

a 4 **b** 7 **c** 500 **d** 0,7
9 0,7 0,9 800

3.29

a 10 **b** 0,5 **c** 10 **d** 0
3 50 1 0

3.30

a 20 + 5 + 0,3 **c** 300 + 20 + 2 + 0,8
40 + 7 + 0,4 400 + 7 + 0,9

b 70 + 4 + 0,5
90 + 8 + 0,3

d 400 + 5 + 0,9
600 + 50 + 0,4

Bls. 71

3.31

a 2 **b** 0,06 **c** 40 **d** 0,4
0,1 2 600 0

3.32

a 400 + 10 + 6 + 0,2 + 0,03
300 + 4 + 0,1 + 0,08

b 300 + 10 + 2 + 0,5
400 + 50 + 0,7

c 700 + 9 + 0,3 + 0,07
600 + 0,4 + 0,02

3.33

a 76,56 **b** 47,85
479,71 609,07
506,59 480,59

Bls. 72

3.34

a 47 kr. **c** 65 kr. **e** 76 kr.
b 28 kr. **d** 60 kr.

3.35

a 76 **b** 64

Bls. 73

3.36

a 5 **c** 6 **e** 17
b 3 **d** 14

3.37

a 5 **c** 4 **e** 47
b 8 **d** 39

3.38

a 8 **c** 14 **e** 56
b 19 **d** 31

3.39

a 6 **b** 9 **c** 40
6 11 49

3.40

a 6 **b** 7 **c** 8
7 14 8

3.41

12 kr.

3.42

Tölurnar eru samtals stærri en 6 + 3 (sem er jafnt og 9) og minna en 7 + 4 (sem er jafnt og 11).

Bls. 74

3.43

a 0,8 m **b** 0,3 m
0,3 m 1,2 m
0,6 m 0,5 m
0,8 m 1,7 m

3.44

a 0,7 **b** 0,8 **c** 0,1
0,6 0,5 0,7

3.45

a 0,8
0,2

b 0,4
0,7

3.46

a 0,3
0,3
0,3

b 0,3
0,3
0,3

c 7
6
5

Bls. 75

3.47

A = 4,2 cm C = 7,9 cm E = 8,3 cm
B = 6,5 cm D = 3,4 cm F = 4,7 cm

3.48

a 12,1 cm **b** 16,2 cm **c** 13 cm
14,8 cm 7,6 cm 15,4 cm

3.49

A = 5,8 cm C = 2,1 cm E = 1,7 cm
B = 3,5 cm D = 6,6 cm F = 5,3 cm

350 a–b Mismunandi svör

Bls. 76

3.51

a 3,9
3,3

b 3,1
5,1

c 1,4
4,7

3.52

a 3,5
4,5

b 3
3,8

c 3,1
4,8

3.53

a 1,7
1,1
1,5

b 0,7
2
2

c 1,2
1,5
2,5

Bls. 77

3.54

a 2,7
5,6

b 7,7
7,9

c 4,8
16,6

3.55

a 6,3
7,2

b 8,1
5,8

c 8,3
20,7

3.56

a 7,7
14,7

b 13,5
7,8

3.57

a 8,1
3,3

b 10,2
2,0

Bls. 78

3.58

a 38,7 **b** 47,6 **c** 73,8 **d** 63,6

3.59

a 365,9 **b** 773,7 **c** 639,5 **d** 948,6

3.60

a 7386,5 **b** 7559,4 **c** 7992,6 **d** 9359,8

3.61

a 25,6
38,8
19,9

b 65,8
85,8
88,6

c 755,7
437,6
379,9

3.62

a 559,6
784,8
789,9

b 648,8
999,6
896,8

c 474,9
356,8
289,8

Bls. 79

3.63

a 47,3 **b** 39,2 **c** 42,2 **d** 123,5

3.64

a 41,3
76,6
63,7

b 81,0
43,2
58,2

c 48,4
48,2
197,2

3.65

a 77,8 **b** 98,6 **c** 108,0 **d** 91,1

3.66

a 711,1
893,6

b 1935,1
1708,6

Bls. 80

3.67

a 24,2 kg **b** 37,4 kg **c** 13,2 kg

Bls. 81

3.68

a 21,7
18,3

b 12,7
15,7

c 41,8
13,6

3.69

a 61,7
85,3

b 69,3
54,1

c 39,7
52,7

3.70

a 206,7
230,7

b 132,8
36,2

c 172,4
163,6

3.71

a 22,8
16,7
77,7

b 6,8
14,5
23,1

c 43,4
55,2
24,6

3.72

a 108,4
180,6
181,1

b 517,1
518,5
190,4

c 118,1
213,9
381

3.73

a 28,1
12,1

b 41,9
0,6

Bls. 82

3.74

a 7,6
2,3

b 2,8
12,1

c 9,3
8,6

3.75

a 7,3
8,6

b 5,3
3,6

c 7,6
3,1

3.76

a 21,8
5,3

b 7,6
60,8

c 37,6
10,1

Bls. 83

3.77

| a | -1,0 | +1,0 | b | -0,1 | +0,1 | |
|----------|-------|-------|----------|-------|-------|-------|
| | 2,0 | 3,0 | 4,0 | 2,4 | 2,5 | 2,6 |
| | 1,5 | 2,5 | 3,5 | 3,3 | 3,4 | 3,5 |
| | 3,8 | 4,8 | 5,8 | 7,71 | 7,81 | 7,91 |
| | 16,5 | 17,5 | 18,5 | 12,75 | 12,85 | 12,95 |
| | 19,7 | 20,7 | 21,7 | 4,82 | 4,92 | 5,02 |
| | 431,4 | 432,4 | 433,4 | 24,97 | 25,07 | 25,17 |

| c | -10 | +10 | |
|----------|-------|-------|-------|
| | 24 | 34 | 44 |
| | 62 | 72 | 82 |
| | 8,2 | 18,2 | 28,2 |
| | 13,5 | 23,5 | 33,5 |
| | 135,1 | 145,1 | 155,1 |
| | 206,4 | 216,4 | 226,4 |

3.78

| a | -0,01 | +0,01 | b | -0,2 | +0,2 | |
|----------|-------|-------|----------|-------|-------|-------|
| | 4,11 | 4,12 | 4,13 | 1,0 | 1,2 | 1,4 |
| | 3,16 | 3,17 | 3,18 | 0,2 | 0,4 | 0,6 |
| | 7,18 | 7,19 | 7,20 | 2,11 | 2,31 | 2,51 |
| | 0,98 | 0,99 | 1 | 5,72 | 5,92 | 6,12 |
| | 12,39 | 12,40 | 12,41 | 11,84 | 12,04 | 12,24 |
| | 50,04 | 50,05 | 50,06 | 8,68 | 8,88 | 9,08 |

| c | -0,05 | +0,05 | |
|----------|-------|-------|-------|
| | 10,27 | 10,32 | 10,37 |
| | 2,41 | 2,46 | 2,51 |
| | 3,20 | 3,25 | 3,30 |
| | 1,83 | 1,88 | 1,93 |
| | 6,68 | 6,73 | 6,78 |
| | 11,97 | 12,02 | 12,07 |

3.79

| a | -0,5 | +0,5 | b | -0,8 | +0,8 | |
|----------|------|------|----------|------|------|------|
| | 25,5 | 26 | 26,5 | 2,6 | 3,4 | 4,2 |
| | 42,2 | 42,7 | 43,2 | 0,1 | 0,9 | 1,7 |
| | 31,3 | 31,8 | 32,3 | 8,4 | 9,2 | 10 |
| | 68,7 | 69,2 | 69,7 | 5,7 | 6,5 | 7,3 |
| | 14,2 | 14,7 | 15,2 | 20 | 20,8 | 21,6 |

| c | -0,03 | +0,02 | |
|----------|-------|-------|------|
| | 0,09 | 0,12 | 0,14 |
| | 0,01 | 0,04 | 0,06 |
| | 0,99 | 1,02 | 1,04 |
| | 3,99 | 4,02 | 4,04 |
| | 3,47 | 3,50 | 3,53 |

3.80

| a | -0,4 | +0,4 | b | -0,02 | +0,02 | |
|----------|------|------|----------|-------|-------|-------|
| | 13 | 13,4 | 13,8 | 0 | 0,02 | 0,04 |
| | 11,6 | 12,0 | 12,4 | 0,02 | 0,04 | 0,06 |
| | 3,4 | 3,8 | 4,2 | 1,00 | 1,02 | 1,04 |
| | 9,6 | 10,0 | 10,4 | 3,02 | 3,04 | 3,06 |
| | 20 | 20,4 | 20,8 | 10,00 | 10,02 | 10,04 |

| c | -10,1 | +10,1 | |
|----------|-------|-------|------|
| | 0 | 10,1 | 20,2 |
| | 5,0 | 15,1 | 25,2 |
| | 7,0 | 17,1 | 27,2 |
| | 10,0 | 20,1 | 30,2 |
| | 0,1 | 10,2 | 20,3 |

Bls. 84

3.81

a 34
123
7
194
105
125
25
52

b Mismunandi svör

c T.d.: Þegar við margföldum tölu með 10 flytjum við kömmuna um eitt sæti til hægri.

3.82

a 17
24

b 45
123

c 18
147

d 49
237

3.83

a 4,2 5,1 4,8 12,3
 1,7 6,5 7,3 1,9

b Mismunandi svör**c** Þegar við deilum í tölu með 10 flytjum við kommuna um eitt sæti til vinstri.

Bls. 85

3.84

a 2,7 **b** 4,7 **c** 15,2 **d** 41,7
 1,3 9,2 41,8 68,2

3.85

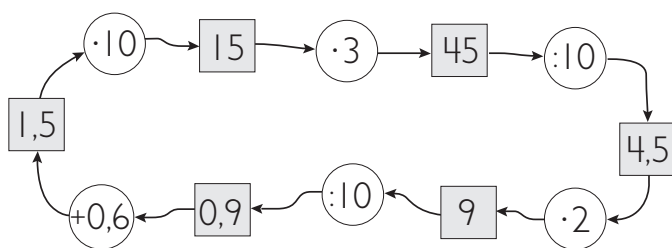
a 275 **b** 142 **c** 415 **d** 379
 418 2617 1250 1722

3.86

a 10 **b** 2,5 **c** 1,7
 10 3,4 5,8
 10 1,7 49,5

3.87

a 10 **b** 10 **c** 10
 0,78 10 10
 10 4,3 25,3

3.88

Bls. 86

3.89

a 4,6 og 2,4 **b** 12,6 og 4,6
 12,6 og 2,4 65,7 og 27,7
 65,7 og 15,3 65,7 og 18,7
 27,7 og 15,3 75,7 og 65,7
 18,7 og 15,3 27,7 og 18,7
 75,7 og 15,3 75,7 og 27,7
 91,9 og 8,1 75,7 og 18,7
 18,5 og 4,5 18,5 og 4,5

c 11,5**d** 89,5**e** 75,7 og 91,9**f** 65,7 og 75,7**g** 91,9 og 8,1**h** 4,5 og 4,6**3.90****a og b** Mismunandi svör**3.91**

a 32,9 **b** 15,7 **c** 20,0
 + 18,4 12,9 - 12,8
 = 51,3 + 24,2 = 7,2
 = 52,8

Bls. 88–89

Próf**1**

A = 0,4

B = 0,8

C = 1,1

D = 1,5

2**a** 1,0 – 1,9 – 2,4 – 2,7 – 3,2**b** 0,17 – 0,2 – 0,29 – 0,35 – 0,4**3****a** 2 + 0,3

10 + 4 + 0,9

b 8 + 0,2 + 0,03

20 + 1 + 0,4 + 0,02

c 100 + 60 + 7 + 0,2 + 0,06

500 + 8 + 0,9 + 0,06

4

a 18,1 **b** 308,14
 243,4 590,71

5**a** Mismunandi svör**b** 0,45**6****a** 0,30 – 0,36 **b** 1,0 – 1,2 **c** 1,22 – 1,42**7**

a 13 **b** 18
 8 4

8

a 44 **b** 41
 318 50

9

a 5,3 **b** 2,7
 5,1 1,8
 14,6 9,6

10

a 19,6 **b** 19,6
 13,5 26,3

11**a** 772,6 **b** 25,2**12****a** 5,6 **b** 3,2
5,1 1,4

Bls. 90

Æfingasíða 1**3.92****a** 0,6 l **b** 0,8 l **c** 2,2 l **d** 0,5 l**3.93****a** 4,3 cm **b** 5,9 cm**3.94** Teikningar nemenda**3.95**

A = 0,2

B = 0,5

C = 0,9

D = 0,5

E = 1,1

F = 1,8

Bls. 91

Æfingasíða 2**3.96****a** A = 0,02 **b** 0,02 **c** 0,06 **d** 0,04

B = 0,04

C = 0,07

D = 0,11

3.97**a** Mismunandi svör **b** 0,35 **c** Mismunandi svör
d 1,3**3.98****a** 0,17 – 0,19 – 0,20 – 0,25 – 0,3 – 0,37 – 0,4**b** 1,95 – 2,24 – 2,42 – 2,58 – 2,6 – 2,61 – 3,01**c** 10,08 – 10,18 – 10,58 – 10,8 – 10,81 – 10,85 – 11,08

Bls. 92

Æfingasíða 3**3.99****a** 7,2 **b** 1,4 **c** 789,4

3,6 2,1 176,6

18,3 26,5 7,6

3.100**a** 32,1 **b** 9,5**3.101**

| | | | | | | | |
|----------|------|------|------|----------|-------|-------|-------|
| a | -1,2 | | +1,2 | b | -0,25 | | +0,25 |
| | 5,0 | 6,2 | 7,4 | | 2,11 | 2,36 | 2,61 |
| | 2,2 | 3,4 | 4,6 | | 4,20 | 4,45 | 4,70 |
| | 6,7 | 7,9 | 9,1 | | 0,92 | 1,17 | 1,42 |
| | 8,9 | 10,1 | 11,3 | | 6,28 | 6,53 | 6,78 |
| | 29,6 | 30,8 | 32,0 | | 12,56 | 12,81 | 13,06 |
| | 58,3 | 59,5 | 60,7 | | 23,84 | 24,09 | 24,34 |

3.102**a** 1,4 – 1,7 – 2 – 2,3**c** 0,8 – 1 – 1,2 – 1,4**b** 1,1 – 0,9 – 0,7 – 0,5**d** 4 – 3,4 – 2,8 – 2,2**3.103****a** 25,87**b** 24,26**c** 467,36

77,51

68,6

416,9

Bls. 93

Geturðu þetta?**3.104**

Geir: 200 kr.

Hans: 400 kr.

Ingvar: 300 kr.

3.105

María: 0,8 l

Nína: 0,6 l

Katrín: 1,2 l

4 Rúmfræði

Bls. 94

4.1

A = ferningur

B = jafnhliða þríhyrningur

C = sexhyrningur

D = samsíðungur

E = hringur

F = jafnarma þríhyrningur

G = rétthyrndur þríhyrningur

H = fimmhyrningur

I = (flangur) rétthyrningur

4.2–4,5 Teikningar nemenda.

Bls. 97

4.6 Þótt hliðarnar séu lengdar munu þær aldrei skerast.**4.7** A, E og F

Bls. 110

4.36

a 180 gráður **b** 90 gráður **c** 270 gráður

4.37

a 90 gráður **b** 45 gráður **c** 135 gráður

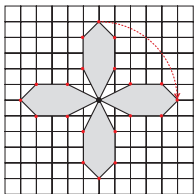
Bls. 111

4.38–4.39 Mismunandi teikningar nemenda

4.40 b 45 gráður

Bls. 112

4.41 **4.42** Mismunandi teikningar nemenda



Bls. 113

4.43

a b **b** a og c **c** d og e

4.44

a d **b** b og c **c** a, e og f

Bls. 114

4.45 A = 60° C = 100°
B = 150° D = 30°

Bls. 115

4.46

a a, d, e, f og j **b** c, g og i **c** b og h

4.47 Um það bil

a = 45° f = 40°
b = 90° g = 170°
c = 100° h = 90°
d = 70° i = 160°
e = 80° j = 75°

4.48 Mismunandi teikningar nemenda

4.49 Um það bil

a 25° **b** 45° **c** 15°

Bls. 116

4.51

A = 45° E = 30°
B = 120° F = 75°
C = 90° G = 105°
D = 160°

Bls. 117

4.52

| Þríhyrnungur | Horn a u.þ.b. | Horn b u.þ.b. | Horn c u.þ.b. |
|--------------|---------------|---------------|---------------|
| 1 | 90° | 45° | 45° |
| 2 | 60° | 60° | 60° |
| 3 | 68° | 68° | 44° |

4.53 180°

4.54 Mismunandi teikningar nemenda

Bls. 118

4.55

a 60° **c** 90° **e** 70°
b 75° **d** 55° **f** 130°

Bls. 119

4.56 90°

4.57 Mismunandi teikningar nemenda

4.58 a Mismunandi teikningar nemenda

b Ummálið er mismunandi

4.59 Mismunandi teikningar nemenda

Bls. 120

4.60

| Ferhyrningur | Horn A u.þ.b. | Horn B u.þ.b. | Horn C u.þ.b. | Horn D u.þ.b. | Hornsumma |
|--------------|---------------|---------------|---------------|---------------|-------------|
| 1 | 90° | 90° | 90° | 90° | 360° |
| 2 | 75° | 105° | 75° | 105° | 360° |
| 3 | 90° | 90° | 40° | 140° | 360° |

4.61 Mismunandi teikningar nemenda

Bls. 121

4.62–4.43 Mismunandi teikningar nemenda

4.64

1 A = 60° **3** A = 75°
B = 120° B = 105°
C = 60° C = 75°
D = 120° D = 105°

2 A = 30° **4** A = 110°
B = 150° B = 70°
C = 30° C = 110°
D = 150° D = 70°

4.65

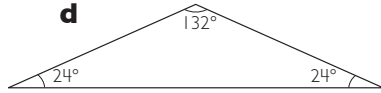
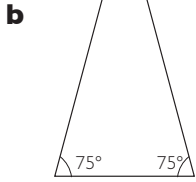
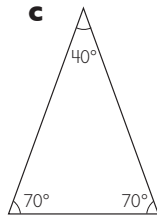
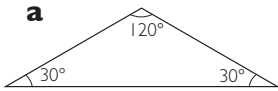
Tvö og tvö horn eru jafn stór

4.66

a 60° **c** 73,1°
b 50° **d** 58,3°

Bls. 122

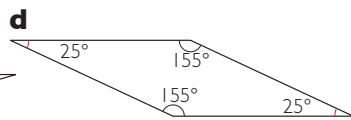
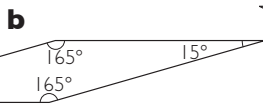
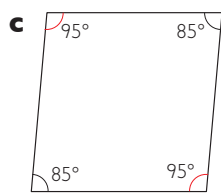
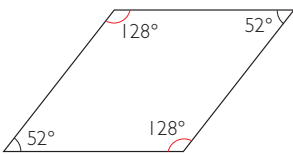
4.67



4.68

- a** 149° **c** $120,8^\circ$
b 108° **d** $73,8^\circ$

4.69 a



Bls. 124–125

Próf

I

- A : réttthyrningur
 B : jafnarma þríhyrningur
 C : trapisa
 D : samsíðungur
 E : ferningur
 F : réttthyrndur þríhyrningur
 G : jafnarma þríhyrningur
 H : sexhyrningur

2

- a** A, D, E og H **c** A, C, D, E og H **e** E, G og H
b A og E **d** A, C, E og F **f** A, D, E og H

3

- Hliðrun: b, c og e
 Snúningur: a og f
 Spegln: d

4

- a** $a = 40^\circ$ **b** Hvöss: a, b og e
 $b = 30^\circ$ Gleið: c og d
 $c = 130^\circ$ Rétt: f
 $d = 100^\circ$
 $e = 80^\circ$
 $f = 90^\circ$

Bls. 126

Æfingasíða 1

4.70

- Ferningur: 4
 Réttthyrningur: 2
 Samsíðungur: 3
 Trapisa: 1

4.71

- a** Línustræti og Hliðargata
b Bröttustígur, Felixgata og Erlendsgata
c Horngata

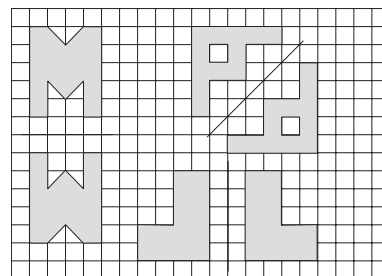
Bls. 127

Æfingasíða 2

4.72

- a** Um 2 reiti til vinstri og 5 reiti niður
b Um 6 reiti til hægri og 3 reiti niður

4.73



4.74–4.75 Mismunandi lausnir nemenda

Bls. 128

Geturðu þetta?

4.76

- A – 3
 B – 4
 C – 5
 D – 1
 E – 2