



Íb

Nemendabók

Lausnir

Efnisyfirlit

5	Mælingar	20
6	Almenn brot	22
7	Margföldun og deiling	27
8	Mynstur	30

5 Mælingar

Bls. 5

5.1 480 fjalir

5.2

a $5\frac{1}{3}$ lítra **b** 10 poka

5.3 **a** 4 hellur **b** 288 hellur

Bls. 6

5.4

a cm eða dm **c** cm **e** km
b mm **d** cm **f** m

5.5

a 8 m **c** 15 cm **e** 4 m
b 696 km **d** 24 cm **f** 25 mm

Bls. 7

5.6

BC = 39 mm = 3,9 cm
CD = 97 mm = 9,7 cm
DE = 128 mm = 12,8 cm
EF = 132 mm = 13,2 cm
FG = 59 mm = 5,9 cm
GH = 4 mm = 0,4 cm
HI = 7 mm = 0,7 cm

5.7

a 14 mm **c** 100 mm **e** 140 mm
b 26 mm **d** 79 mm

5.8

a 1,2 cm **c** 8,6 cm **e** 45 cm
b 1,8 cm **d** 10 cm

Bls. 8

5.9 Teikningar nemenda

5.10 Mismunandi svör

Bls. 9

5.11 **a** 13,5 cm **b** 11,5 cm **c** 28 cm

5.12 Mismunandi svör

Bls. 10

5.13

19 m

5.14

a 18 m **b** 26,8 m **c** 25,9 m **d** 13,4 m

Bls. 11

5.15

a 10 **b** 12

5.16 Mismunandi teikningar nemenda

Bls. 12

5.17

a = 19,3 cm **c** = 19,4 cm **e** = 21 cm
b = 26 cm **d** = 22 cm **f** = 16,5 cm

Bls. 13

5.18

	Hlið 1	Hlið 2	Hlið 3	Ummál
a	6 cm	5 cm	8 cm	19 cm
b	13 cm	9 cm	17 cm	39 cm
c	8 cm	17 cm	18 cm	43 cm
d	86 cm	46 cm	55 cm	187 cm
e	69 cm	102 cm	56 cm	227 cm
f	98 m	105 m	120 m	323 m
g	214 m	347 m	183 m	744 m

5.19

	Hlið 1	Hlið 2	Hlið 3	Hlið 4	Ummál
a	5 cm	5 cm	9 cm	6,5 cm	25,5 cm
b	95 mm	65 mm	95 mm	65 mm	320 mm
c	75 cm	84 cm	99 cm	50 cm	308 cm
d	4,5 cm	5,5 cm	5,0 cm	7,5 cm	22,5 cm
e	50 m	106 m	73 m	92 m	321 m
f	3,5 cm	8,1 cm	6,7 cm	5,5 cm	23,8 cm
g	4,4 cm	5,5 cm	3,1 cm	6,3 cm	19,3 m

5.20 Mismunandi svör

Bls. 14

5.21

a A 16 reiti **b** A og D, B, C
 B 21 reit
 C 31 reit
 D 16 reiti

5.22–5.23 Mismunandi svör

Bls. 15

5.24

a 10 m² **c** 40 m² **e** 140 m²
b 210 m² **d** 60 m² **f** Uþ.b. 30 m²

Bls. 16

5.25

a 6 **c** 7 **e** 4
b 3 **d** 3,5 **f** 9

5.26 Teikningar nemenda

Bls. 17

5.27

- a** 12 cm² **c** 7 cm² **e** 16 cm²
b 32 cm² **d** 18 cm² **f** 12,5 cm²

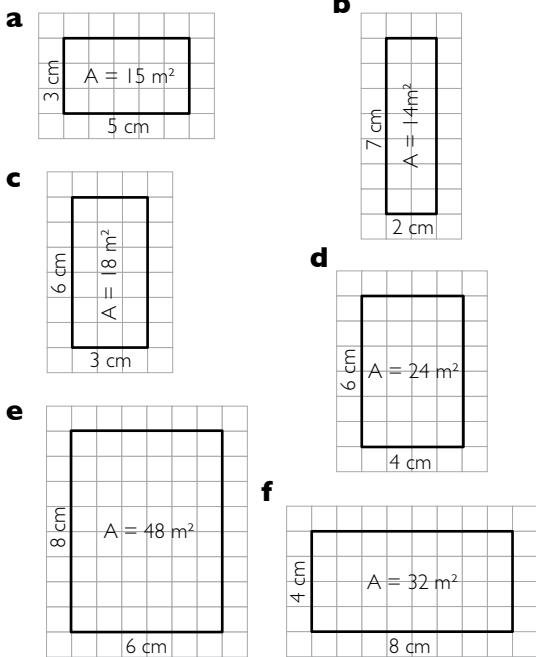
Bls. 18

5.28

- a** 25 cm² **c** 18 cm² **e** 28 cm²
b 16 cm² **d** 24 cm² **f** 24 cm²

Bls. 19

5.29



5.30 Til dæmis

- a** 5 · 5 og 4 · 7 **b** 9 · 6 og 6 · 7 **c** 9 · 4 og 7 · 7

Bls. 20

5.31 Til dæmis

- a** 2 · 12, 4 · 6 og 3 · 8 **b** 5 · 8 og 4 · 10

- 5.32** **a** 25 cm² **b** 12,5 cm²

- 5.33** **a** 18 cm² **b** 9 cm²
 28 cm² 14 cm²

- 5.34** **a** 10 cm² **b** 10,5 cm² **c** 12,5 cm²

Bls. 21

5.35 Þeir hafa sama flatarmál

5.36

- a** 12 cm² **b** 20 cm² **c** 18 cm² **d** 28 cm²

5.37–5.38 Teikningar nemenda

Bls. 24

5.39 U.þ.b.

- a** 110 m **b** 125 m **c** 100 m
 90 m 150 m 140 m

5.40 U.þ.b. 355 m

Bls. 25

5.41

- a** A 12 000 m = 12 km **b** A 8,75 km
 B 13 000 m = 13 km B 8,75 km
 C 10 500 m = 10,5 km C 7,75 km
 D 13 500 m = 13,5 km D 10 km
 E 14 000 m = 14 km E 9,75 km

Bls. 26

5.412–5.43 Teikningar nemenda

Bls. 28

Próf

I

- A 50 mm = 5 cm
B 20 mm = 2 cm
C 47 mm = 4,7 cm
D 125 mm = 12,5 cm
E 102 mm = 10,2 cm
F 19 mm = 1,9 cm

3

- a** 70 cm **b** 35 cm **c** 53 cm **d** 100 cm

- 4** A 23,5 cm
 B 26 cm

- 5 a** 21 cm² **b** 25 cm² **c** 32 cm² **d** 15 cm²

Bls. 30

Æfingasíða I

5.44 U.þ.b.

- A 40 mm = 4 cm
B 121 mm = 12,1 cm
C 65 mm = 6,5 cm
D 65 mm = 6,5 cm

5.45

	a	b
Helga	148	14,8
Ísak	157	15,7
Soffía	103	10,3
Egill	196	19,6
Bjarni	137	13,7
María	161	16,1
Tumi	91	9,1

5.45

Teikningar nemenda

Bls. 31

Æfingasiða 2

5.49

Mynd	Lengd	Breidd	Ummál	Flatarmál
A	9 cm	3 cm	24 cm	27 cm ²
B	5 cm	5 cm	20 cm	25 cm ²
C	8 cm	5 cm	22,5 cm	20 cm ²
D	óreglulegur		26 cm	22 cm ²

Bls. 32

Æfingasiða 3

5.50

a 12 cm² b 17,25 cm² c 14,75 cm²

5.50

a 48 ruter b 69 ruter c 59 ruter

Bls. 33

Geturðu þetta?

5.51

90 m²

5.52

42 m²

6 Almenn brot

Bls. 35

6.1

a $\frac{1}{4}$ b $\frac{2}{4}$ eða $\frac{1}{2}$

6.2

a $\frac{3}{9}$ eða $\frac{1}{3}$ b $\frac{4}{9}$

6.3

a $\frac{4}{20}$ eða $\frac{1}{5}$ b $\frac{10}{20}$ eða $\frac{1}{2}$

Bls. 36

6.4

a $\frac{4}{8}$ eða $\frac{1}{2}$ c $\frac{8}{9}$ e $\frac{2}{10}$ eða $\frac{1}{5}$

b $\frac{3}{9}$ eða $\frac{1}{3}$ d $\frac{2}{5}$ f $\frac{3}{8}$

6.5

	Rauðir	Gulir	Svartir
a	$\frac{3}{9}$	$\frac{2}{9}$	$\frac{4}{9}$

b	$\frac{4}{12}$	$\frac{5}{12}$	$\frac{3}{12}$
c	$\frac{3}{12}$	$\frac{4}{12}$	$\frac{5}{12}$
d	$\frac{4}{9}$	$\frac{1}{9}$	$\frac{4}{9}$
e	$\frac{1}{12}$	$\frac{6}{12}$	$\frac{5}{12}$

Bls. 37

6.6

	Er afgangur	Búið að borða
a	$\frac{2}{8}$	$\frac{6}{8}$
b	$\frac{3}{8}$	$\frac{5}{8}$
c	$\frac{6}{8}$	$\frac{2}{8}$
d	$\frac{6}{12}$	$\frac{6}{12}$
e	$\frac{3}{12}$	$\frac{9}{12}$
f	$\frac{1}{12}$	$\frac{11}{12}$
g	$\frac{4}{12}$	$\frac{8}{12}$
h	$\frac{10}{20}$	$\frac{10}{20}$
i	$\frac{5}{20}$	$\frac{15}{20}$
j	$\frac{13}{20}$	$\frac{7}{20}$

6.7 a A = $\frac{2}{8}$ b A

B = $\frac{2}{10}$

C = $\frac{1}{6}$

D = $\frac{2}{12}$

Bls. 38

6.8

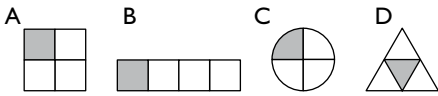
	a	b
	Rauður	Blár
A	$\frac{2}{6}$	$\frac{4}{6}$
B	$\frac{4}{12}$	$\frac{8}{12}$
C	$\frac{5}{12}$	$\frac{7}{12}$
D	$\frac{1}{4}$	$\frac{3}{4}$
E	$\frac{1}{4}$	$\frac{3}{4}$
F	$\frac{1}{4}$	$\frac{3}{4}$

6.9 C

6.10 A, B, D

Bls. 39

6.11 Til dæmis

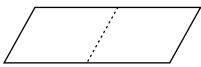


6.12 Mismunandi teikningar nemenda

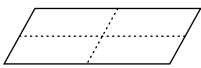
6.13 Mismunandi teikningar nemenda

6.14

a Til dæmis

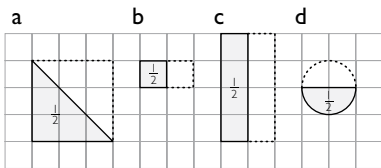


b Til dæmis

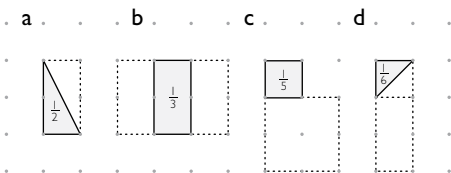


Bls. 40

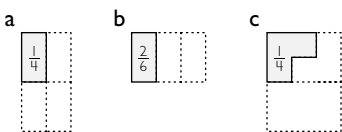
6.15 Til dæmis



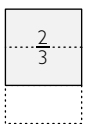
6.16 Til dæmis



6.17 Til dæmis

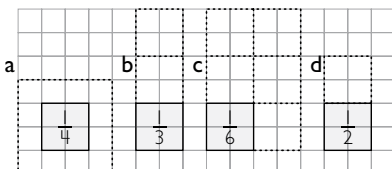


6.18 Til dæmis

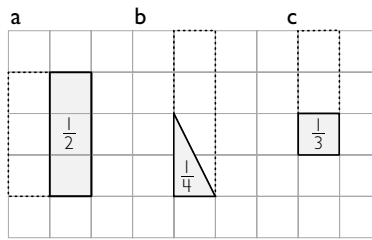


Bls. 41

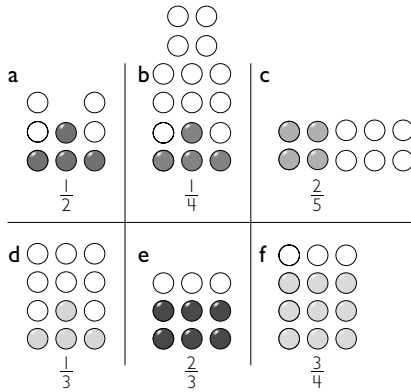
6.19 Til dæmis



6.20 Til dæmis



6.21 Til dæmis



Bls. 42

6.22

a $\frac{2}{5}$ b $\frac{4}{6}$ c $\frac{7}{10}$

6.23

a $\frac{4}{8}$ b $\frac{1}{2}$

6.24 Til dæmis

$\frac{1}{2}$, $\frac{2}{4}$ og $\frac{4}{8}$

6.25 Til dæmis

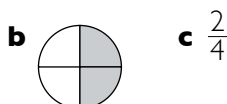
$\frac{1}{3}$, $\frac{2}{4}$ og $\frac{3}{5}$

6.26 Til dæmis

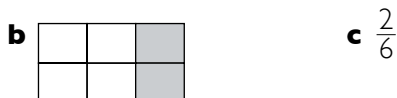
$\frac{2}{4}$, $\frac{3}{6}$ og $\frac{5}{10}$

Bls. 43

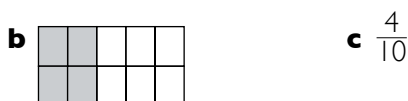
6.27



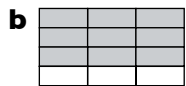
6.28



6.29

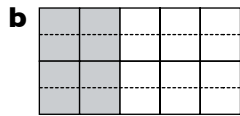


6.30



c $\frac{9}{12}$

6.31



c $\frac{8}{20}$

Bls. 44

6.32

a $\frac{2}{6}$ **b** $\frac{4}{10}$ **c** $\frac{2}{8}$
 $\frac{4}{6}$ $\frac{8}{14}$ $\frac{4}{12}$
 $\frac{2}{10}$ $\frac{10}{12}$ $\frac{8}{20}$

6.33

a $\frac{2}{3}$ **b** $\frac{4}{6}$ **c** $\frac{5}{7}$
 $\frac{2}{6}$ $\frac{1}{7}$ $\frac{7}{8}$
 $\frac{3}{5}$ $\frac{9}{10}$ $\frac{6}{10}$

Bls. 45

6.34

a $\frac{1}{2} = \frac{5}{10}, \frac{3}{4} = \frac{6}{8}$ og $\frac{5}{5} = \frac{7}{7}$ **c** $\frac{1}{2}, \frac{3}{4}, \frac{2}{3}$
b $\frac{7}{7}$ og $\frac{5}{5}$ **d** $\frac{1}{2} + \frac{5}{10}$
 $\frac{1}{3} + \frac{2}{3}$
 $\frac{2}{6} + \frac{2}{3}$

6.35

$\frac{2}{8}, \frac{10}{40}$ og $\frac{4}{16}$

6.36

$\frac{1}{3} = \frac{3}{9}$
 $\frac{2}{8} = \frac{1}{4}$
 $\frac{2}{3} = \frac{4}{6}$
 $\frac{1}{6} = \frac{2}{12}$
 $\frac{1}{5} = \frac{2}{10}$

Bls. 46

6.37

a $\frac{3}{4}$ **b** $\frac{3}{6} + \frac{3}{6}$ **c** $\frac{4}{9} + \frac{5}{9}$

6.38

a $\frac{4}{6}$ **b** $\frac{4}{5}$
 $\frac{4}{7}$ $\frac{5}{9}$

6.39

$\frac{3}{7}$ og $\frac{4}{7}$ $\frac{1}{6}$ og $\frac{5}{6}$
 $\frac{3}{10}$ og $\frac{7}{10}$ $\frac{9}{10}$ og $\frac{1}{10}$
 $\frac{1}{3}$ og $\frac{2}{3}$ $\frac{5}{8}$ og $\frac{3}{8}$

6.40

a $\frac{2}{10}$ **b** $\frac{2}{3}$

Bls. 47

6.41

a $A = \frac{8}{10}l$ **b** $\frac{9}{10}l$ **d** $A = 0,8l$
 $B = \frac{5}{10}l$ **c** $\frac{3}{10}l$ $B = 0,5l$
 $C = \frac{4}{10}l$ $C = 0,4l$
 $D = \frac{7}{10}l$ $D = 0,7l$

6.42

a $\frac{9}{10}l$ **b** $E = \frac{7}{10}l$
 $F = \frac{6}{10}l$
 $G = \frac{8}{10}l$

Bls. 48

6.43

a $A = \frac{2}{10}$ **b** $A = 0,2$
 $B = \frac{7}{10}$ $B = 0,7$

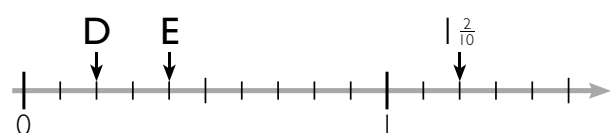
6.44

a $\frac{1}{10}, \frac{2}{10}, \frac{3}{10}, \frac{5}{10}, \frac{7}{10}, \frac{8}{10}$
b 0,1, 0,2, 0,3, 0,5, 0,7, 0,8

6.45

a $B = \frac{8}{10}$ **b** $\frac{5}{10}$ **c** $\frac{7}{10}$

6.46



Bls. 49

6.47

$$A = \frac{1}{10} = 0,1$$

$$B = \frac{3}{10} = 0,3$$

$$C = \frac{4}{10} = 0,4$$

$$D = \frac{5}{10} = 0,5$$

$$E = \frac{7}{10} = 0,7$$

$$F = \frac{9}{10} = 0,9$$

6.48

a $\frac{3}{10}, \frac{4}{10}, \frac{5}{10}$

b Til dæmis

$$\frac{3}{10} \text{ og } \frac{5}{10}$$

$$\frac{1}{10} \text{ og } \frac{4}{10}$$

$$\frac{5}{10} \text{ og } \frac{9}{10}$$

$$\frac{4}{10} \text{ og } \frac{9}{10}$$

6.49

$$0,1 + \frac{9}{10} = 1$$

$$0,8 + \frac{2}{10} = 1$$

$$0,9 + \frac{1}{10} = 1$$

$$0,5 + \frac{5}{10} = 1$$

$$0,3 + \frac{7}{10} = 1$$

$$0,2 + \frac{8}{10} = 1$$

Bls. 50

6.50

a = og >

b > og >

6.51

a $\frac{4}{7}, \frac{5}{7}, \frac{6}{7}$

c $\frac{5}{12}, \frac{3}{12}, \frac{1}{12}$

e $\frac{5}{10}, \frac{6}{12}, \frac{7}{14}$

b $\frac{8}{10}, \frac{10}{10}, \frac{12}{10}$

d $\frac{6}{7}, \frac{7}{8}, \frac{8}{9}$

Bls. 51

6.52

a $\frac{2}{4}$ **c** $\frac{4}{6}$

b $\frac{3}{5}$ **d** $\frac{3}{8}$

6.53

a $\frac{3}{6}$ **b** $\frac{7}{8}$ **c** $\frac{7}{10}$
 $\frac{3}{4}$ $\frac{3}{7}$ $\frac{6}{9}$

6.54

d $\frac{6}{10}$ **b** $\frac{7}{8}$
 $\frac{14}{20}$ $\frac{6}{7}$

6.55

a $\frac{3}{8} + \frac{3}{8} + \frac{2}{8}$

b $\frac{5}{8} + \frac{2}{8} + \frac{1}{8}$

Bls. 52

6.56

a $\frac{5}{8}$ **c** $\frac{3}{9} + \frac{2}{9} = \frac{5}{9}$

e $\frac{2}{6} + \frac{3}{6} = \frac{5}{6}$

b $\frac{6}{7}$ **d** $\frac{3}{10} + \frac{5}{10} = \frac{8}{10}$

f $\frac{1}{5} + \frac{1}{5} + \frac{2}{5} = \frac{4}{5}$

6.57

a $\frac{6}{7}$ **b** $\frac{5}{8}$ **c** $\frac{7}{8}$
 $\frac{9}{10}$ $\frac{4}{6}$ $\frac{3}{9}$

6.58

a $\frac{9}{10}$ **b** $\frac{9}{15}$
 $\frac{10}{12}$ $\frac{14}{20}$

Bls. 53

6.59

a $\frac{3}{5}$ **b** $\frac{3}{6}$ **c** $\frac{4}{8}$ **d** $\frac{2}{8}$

6.60

a $\frac{4}{8}$ **b** $\frac{1}{8}$ **c** $\frac{3}{12}$ **d** $\frac{0}{6} = 0$

6.61

a $\frac{4}{8}$ **b** $\frac{3}{10}$ **c** $\frac{5}{15}$
 $\frac{1}{7}$ $\frac{1}{15}$ $\frac{10}{20}$

Bls. 54

6.62

a $\frac{5}{8} - \frac{2}{8} = \frac{3}{8}$

c $\frac{6}{8} - \frac{3}{8} = \frac{3}{8}$

b $\frac{5}{6} - \frac{2}{6} = \frac{3}{6}$

d $\frac{7}{8} - \frac{2}{8} = \frac{5}{8}$

6.63

a Geir borðaði $\frac{3}{8}$ meira.

b $\frac{5}{8}$

Bls. 55

6.64

a $\frac{3}{6}$

b $\frac{4}{9}$

6.65

a $\frac{5}{8}$

b $\frac{7}{12}$

c $\frac{5}{13}$

$\frac{3}{9}$

$\frac{3}{10}$

$\frac{1}{18}$

6.66

$\frac{3}{10}$

Bls. 56

6.67

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

b $\frac{10}{8} = 1\frac{2}{8}$

6.68

a $\frac{5}{4} = 1\frac{1}{4}$

b $\frac{8}{8} = 1$

6.69

a $\frac{6}{5} = 1\frac{1}{5}$

b $\frac{11}{8} = 1\frac{3}{8}$

c $\frac{17}{12} = 1\frac{5}{12}$

$\frac{12}{10} = 1\frac{2}{10}$

$\frac{7}{5} = 1\frac{2}{5}$

$\frac{18}{15} = 1\frac{3}{15}$

Bls. 57

6.70

a $\frac{6}{4} = 1\frac{2}{4}$

c $\frac{3}{5} + \frac{4}{5} = \frac{7}{5} = 1\frac{2}{5}$

b $\frac{5}{4} = 1\frac{1}{4}$

d $\frac{4}{6} + \frac{4}{6} = \frac{8}{6} = 1\frac{2}{6}$

6.71

a $\frac{5}{4} = 1\frac{1}{4}$

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

c $1\frac{3}{5}$

$\frac{7}{5} = 1\frac{2}{5}$

$\frac{6}{5} = 1\frac{1}{5}$

$1\frac{3}{6}$

Bls. 58

6.72

a $1\frac{1}{4}$

b 1

c $\frac{3}{4}$

d $\frac{3}{4}$

6.73

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

b $\frac{3}{4}$

c $1\frac{1}{4}$

1

$\frac{4}{5}$

$\frac{3}{4}$

6.74

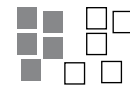
a $\frac{6}{5} = 1\frac{1}{5}$

b $1\frac{2}{4}$

Bls. 59

6.75 50% 100% 50% 100%

6.76 Til dæmis



6.77 a 100 kr.

b 200 kr.

6.78 12 strákar

6.79 80 bls.

Bls. 60

6.80 a $\frac{50}{100}$

b $\frac{1}{100}$

c $\frac{10}{100}$

d $\frac{20}{100}$

e $\frac{2}{100}$

f $\frac{50}{100}$

g $\frac{10}{100}$

h $\frac{100}{100}$

6.81 A 50%

B 1%

C 10%

D 20%

E 2%

F 50%

G 10%

H 100%

6.82 A 10% = $\frac{10}{100}$

B 50% = $\frac{50}{100}$

C 1% = $\frac{1}{100}$

D 100% = $\frac{100}{100}$

E 50% = $\frac{50}{100}$

F 100% = $\frac{100}{100}$

G 10% = $\frac{10}{100}$

H 1% = $\frac{1}{100}$

Próf

Bls. 62

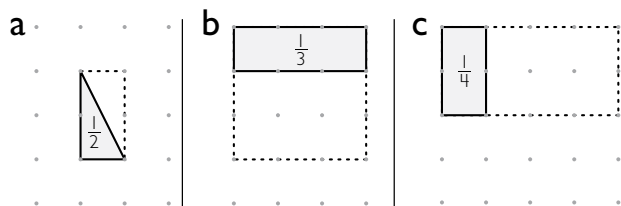
I $\frac{3}{8}$ eru grænir

$\frac{4}{8}$ eru rauðir

$\frac{1}{8}$ er blár

2 a $\frac{1}{4}$ b $\frac{2}{4}$ c $\frac{5}{6}$

3 Til dæmis



4 a 3 b 6 c 10

5 $\frac{2}{6}$, $\frac{5}{15}$ og $\frac{4}{12}$

Bls. 63

6 A = $\frac{2}{6}$ B = $\frac{5}{6}$

7 a 0,3 b 0,1 c 0,8 d 0,5

8 a $\frac{9}{10}$ b $\frac{2}{10}$ c $\frac{4}{10}$ d $\frac{6}{10}$

9 a $\frac{4}{5}$ b $\frac{6}{9}$ c $\frac{4}{10}$

10 a $\frac{3}{6}$ b $\frac{4}{9}$ c $\frac{3}{6}$

11 a $\frac{12}{14}$ b $\frac{5}{9}$

12 a $\frac{7}{5} = 1\frac{2}{5}$ b $\frac{4}{5}$

13 a 100% b 50% c 10%

Bls. 64

6.83

$\frac{5}{8}$ eru gulir

$\frac{2}{8}$ eru rauðir

$\frac{1}{8}$ er grænn

6.84 $\frac{4}{6}$

6.85

a = b >

6.86 Til dæmis

a $\frac{3}{5}$ og $\frac{7}{9}$ b $\frac{2}{4}$ og $\frac{7}{14}$ c $\frac{4}{6}$ og $\frac{20}{30}$

6.87

a A = $\frac{2}{5}$ B = $\frac{4}{5}$ b A = $\frac{2}{8}$ B = $\frac{5}{8}$

6.88

a $\frac{3}{5}$ b $\frac{5}{8}$

6.89

a $\frac{5}{6}$ c $\frac{8}{16}$ e $\frac{5}{15}$

b $\frac{4}{5}$ d $\frac{8}{18}$ f $\frac{4}{5}$

Bls. 65

6.90 $\frac{4}{6}$

6.91

a 4 nemendur, $\frac{4}{15}$

b 6 nemendur, $\frac{6}{15}$

c 5 nemendur, $\frac{5}{15}$

d 15 nemendur, $\frac{15}{15}$

7 Margföldun og deiling

Bls. 68

7.1

a $3 \cdot 4 = 12$ **b** $4 \cdot 4 = 16$ **c** $9 \cdot 4 = 36$
 $2 \cdot 4 = 8$ $6 \cdot 4 = 24$ $11 \cdot 4 = 44$
 $5 \cdot 4 = 20$ $8 \cdot 4 = 32$ $15 \cdot 4 = 60$

7.2

a $2 \cdot 6 = 12$ **b** $5 \cdot 6 = 30$ **c** $7 \cdot 6 = 42$
 $4 \cdot 6 = 24$ $6 \cdot 6 = 36$ $11 \cdot 6 = 66$
 $8 \cdot 6 = 48$ $9 \cdot 6 = 54$ $12 \cdot 6 = 72$

Bls. 69

7.3

a 3 **d** 2 **g** 7
b 4 **e** 11 **h** 9
c 8 **f** 5 **i** 12

7.4

a

.	2	4	6	8
3	6	12	18	24
7	14	28	42	56
8	16	32	48	64

b

.	3	5	7	9
4	12	20	28	36
6	18	30	42	54
9	27	45	63	81

Bls. 70

7.5

a

Helmingi minni		Tvöfalt stærri
6	12	24
2	4	8
5	10	20
10	20	40
7	14	28
8	16	32
11	22	44
17	34	68
24	48	96

b

Helmingi minni		Tvöfalt stærri
3	6	12
4	8	16
9	18	36
14	28	56
12	24	48
26	52	104
31,5	63	126
44	88	176
57,5	115	230

7.6

a 20, 24, 28, 32 **b** 42, 48, 54, 60 **c** 49, 56, 63, 70

7.7

a 62, 67, 72, 77 **b** 62, 70, 78, 86 **c** 137, 146, 155, 164

7.8 Mismunandi svör

Bls. 72

7.9 24 kr.

7.10 21 kr.

7.11 36 egg

7.12 50 karamellur

7.13

36 kr.

7.14

48 fætur

Bls. 73

7.15

a 70 **b** 60 **c** 800
30 120 1300
40 180 1400

7.16

a 90 **b** 150 **c** 1200
120 150 1600
180 300 2500

7.17

a 240 **b** 1000 **c** 8000
140 2400 8000
400 2000 28 000

7.18 Til dæmis

a $2 \cdot 60, 3 \cdot 40, 4 \cdot 30, 6 \cdot 20$
b $36 \cdot 10, 72 \cdot 5, 18 \cdot 20, 9 \cdot 40$
c $10 \cdot 100, 5 \cdot 200, 2 \cdot 500, 20 \cdot 50$

7.19

a 10 **b** 4 **c** 200
100 10 200
20 50 400
20 60 100

Bls. 74

7.20 b 4095 kr. **c** 2990 kr. **d** 193 kr.

7.21 Mismunandi svör

Bls. 76

7.22

- a** $3 \cdot 6 = 18$ **c** $9 \cdot 5 = 45$ **e** $9 \cdot 7 = 63$
- b** $4 \cdot 7 = 28$ **d** $8 \cdot 6 = 48$ **f** $9 \cdot 6 = 54$

Bls. 77

7.23

- a** $12 \cdot 5 = 60$ **c** $14 \cdot 6 = 84$
- b** $16 \cdot 4 = 64$ **d** $13 \cdot 8 = 104$
- $(10 \cdot 4 + 6 \cdot 4 = 40 + 24)$

Bls. 78

7.24

- a** 84 **b** 105 **c** 128 **d** 78

Bls. 79

7.25

- a** 91 **b** 84 **c** 144 **d** 135
- 108 68 114 104
- 70 135 153 114

7.26

- a** 110 **b** 175 **c** 248 **d** 186
- 104 192 180 132
- 155 81 148 196

Bls. 80

7.27

- a** 168 **b** 138 **c** 225
- 168 248 276

7.28

- a** 216 **b** 210 **c** 312

Bls. 81

7.29

- a** 168 **b** 240 **c** 143 **d** 288

7.30

- a** 264 **b** 418 **c** 204 **d** 390

Bls. 82

7.31

- a** $3 \cdot 7 = 21$ **d** $8 \cdot 6 = 48$
- b** $7 \cdot 7 = 49$ **e** $5 \cdot 7 = 35$
- c** $4 \cdot 10 = 40$ **f** $9 \cdot 7 = 63$

Bls. 83

7.32

- a** 3 **b** 10 **c** 8
- 5 9 7

7.33

- a** 4 **b** 3 **c** 4
- 8 5 9

7.34

- a** 6 **b** 5 **c** 6
- 8 4 6

7.35

a	:5		·5	b	:10		·10
2	10	50	2	20	200	4	400
4	20	100	7	70	700	10	1000
5	25	125	10	100	1000	16	1600
10	50	250	12	60	300		

Bls. 84

7.37

- a** 3 **b** 9 **c** 7 **d** 6

7.38

- a** 7 **c** 5 **e** 4
- b** 8 **d** 5 **f** 7

Bls. 85

7.39

- a** 14 m eftir **b** 6 **c** 2 m
- 8 m eftir

7.40

- a** 5 **b** 7 **c** 9 **d** 11

7.41

- a** 4 **b** 5 **c** 7 **d** 11

7.42

- a** 3 **b** 5 **c** 7 **d** 9

Bls. 86

7.43 Til dæmis

- a** $12 : 2 = 6$ **b** $16 : 2 = 8$
- $14 : 2 = 7$ $42 : 3 = 14$
- $12 : 4 = 3$ $45 : 3 = 15$
- $15 : 3 = 5$ $54 : 3 = 18$

7.44

- a** 26 **c** 13
- b** 17 og 1 afgangs **d** 10 og 2 afgangs

Bls. 87

7.45

12

7.46**a** 8 kr. **b** 54 kr. **c** 60 kr. **d** 8 kr.

Bls. 88

7.47 155 kr.**7.48** 36 kr.

Bls. 89

7.49**a** 45 **b** 30 **c** 18**7.50** 37 og 2 afgang**7.51** 120**7.52** 27**7.53** 38 börn**7.54** **a** Bls. 86 **b** Bls. 171

Bls. 90

7.55**a** 50 l **c** 270 l **e** Rúmlega 57 fötur
b 350 l **d** 54 fötum**7.56****a** 240 l **b** 510 l
c 42 fullar fötur og eina hálfá**Próf**

Bls. 92

1**a** 10 **b** 35 **c** 45
18 24 49
27 48 36
12 70 72**2****a** 6 **b** 8 **c** 4
9 6 7
7 7 5
4 10 7**3****a** $6 \cdot 4 = 24$ **c** $72 : 6 = 12$
24 kr. 12 blöðrur
b $6 \cdot 9 = 54$ **d** $7 \cdot 6 + 7 \cdot 9 = 42 + 63 = 105$
54 kr. 105 kr.

Bls. 93

4**a** $7 \cdot 5 = 35$ **b** $15 \cdot 6 = 90$ **c** $13 \cdot 9 = 117$ **5****a** 84 **b** 90 **c** 192**6** 55 kr.**7** 15 stafla**8****a** 16 **b** 17 **c** 64
12 22 15

Bls. 94

Æfingasíða 1**7.57****a** $3 \cdot 3 = 9$ **c** $5 \cdot 3 = 15$
b $5 \cdot 2 = 10$ **d** $2 \cdot 4 = 8$ **7.58****a** $7 \cdot 2 = 14$ **c** $6 \cdot 4 = 24$
b $5 \cdot 3 = 15$ **d** $5 \cdot 6 = 30$ **7.59****a** $2 \cdot 6 = 12$ **b** $6 \cdot 4 = 24$ **c** $4 \cdot 8 = 32$
 $3 \cdot 7 = 21$ $6 \cdot 7 = 42$ $4 \cdot 9 = 36$
 $4 \cdot 7 = 28$ $7 \cdot 6 = 42$ $8 \cdot 9 = 72$ **7.60****a** $3 \cdot 5 = 15$ **c** $5 \cdot 4 = 20$ **e** $6 \cdot 5 = 30$
b $4 \cdot 6 = 24$ **d** $7 \cdot 4 = 28$ **f** $7 \cdot 6 = 42$

Bls. 95

Æfingasíða 2**7.61****a** $5 \cdot 5 = 25$ **b** $8 \cdot 3 = 24$ **c** $10 \cdot 6 = 60$ **7.62****a** $16 \cdot 4 = 64$ **b** $23 \cdot 7 = 161$ **7.63****a** 65 **b** 114 **c** 238

Bls. 96

Æfingasíða 3**7.64****a** 7 **b** 9 **c** 7
5 7 4
7 6 8
9 8 7**7.65****a** 6 **b** 6 **c** 3
5 3 5
10 7 9

7.66

- a 55 kr. b 81 kr. c 130 kr.

Bls. 97

Geturðu þetta?**7.67** Til dæmis

- a $(6 + 2) + (8 - 7) = 9$ e $(9 - 5) \cdot (6 : 2) = 12$
 b $(7 + 8) - (2 + 4) = 9$ f $(3 + 4) \cdot (9 - 1) = 56$
 c $(1 + 4) \cdot (9 : 3) = 15$ g $(8 : 4) \cdot (6 : 2) = 6$
 d $(1 + 5) \cdot (2 + 4) = 36$ h $(2 \cdot 5) \cdot (7 - 1) = 60$

8 Mynstur

Bls. 99

8.1

- a Er hliðrað b Hver mynd spegluð í hvert sinn.
 c Hverri mynd snúið um 90° í hvert sinn.

8.2 b, a og c**8.3** Mismunandi teikningar nemenda


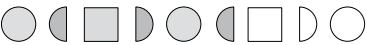
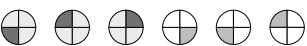


Bls. 100–101

8.4–8.8


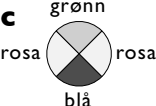

Mismunandi lausnir

Bls. 102

8.9

- a 
 b 
 c 
 d 
 e 

8.10



- a  b  c  d 

Bls. 103

8.11

- a  b  c  d 

8.12

- a  b 

Bls. 104

8.13

a 12 stólar

	Fjöldi borða	Fjöldi stóla
b	5	14
	6	16
	7	18
c	8	20
	9	22
	10	24

d 44 stólar

Bls. 105

8.14

a 18 stólar

	Fjöldi borða	Fjöldi stóla
b	5	22
	6	26
c	7	30
	8	34
	9	38
	10	42
	20	82

8.15

a 14 hellur

b Blómabeð	1	2	3	4	5
Hellur	6	10	14	18	22

c 42 hellur

d 82 hellur

Bls. 106

8.16

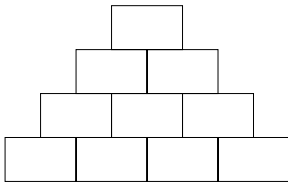
a 16 reitir

	Mynd	Fjöldi reita
b	5	25
	6	36
c	7	49
	8	64
	9	81
	10	100
d	20	400
	50	2500
	100	10 000

Bls. 107

8.17

a



Mynd	Fjöldi reita
5	15
6	21
7	28
8	36

c Mismunur milli fjölda reita eykst um 1 með hverri mynd.

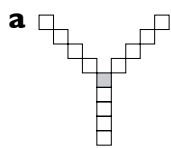
Mynd	Fjöldi reita
9	45
10	55
11	66
12	78

8.18

a 55 kr. **b** 210 kr.

Bls. 108

8.19



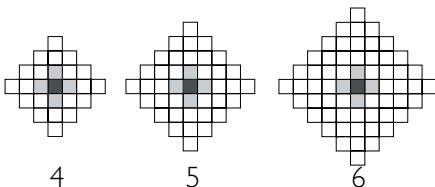
13 reitir

Myndir	Fjöldi reita
6	16
7	19
8	22

c Reitunum fjölgar um 3 með hverri mynd.

8.20

a



Mynd	Fjöldi reita	Stækkar um
1	1	0
2	5	4
3	13	8
4	25	12
5	41	16
6	61	20

7	85	24
8	113	28
9	145	32
10	181	36
11	221	40
12	265	44

c 4 reiti

8.21 Mismunandi teikningar nemenda

Bls. 109

8.22

a 7

Fjöldi hæða	1	2	3	4	5
Fjöldi spila	2	7	15	26	40

c 155 spil

8.23

a 19 manns

Fjöldi vagna	0	1	2	3	4	5
Fjöldi manna	1	7	13	19	25	31

c 121 maður

Bls. 110

8.24

Fjöldi epla	1	2	3	4	5	6	7	8	9
Upphæð í krónum	2	4	6	8	10	12	14	16	18

Fjöldi glasa	5	10	15	20	25	30	35	40
Upphæð í krónum	25	50	75	100	125	150	175	200

Fjöldi vafflana	2	4	6	8	10	12
Upphæð í krónum	30	60	90	120	150	180

d 500 kr.
600 kr.
100 kr.

e 6 vöfflur

Bls. 111

8.25

a 10, 12, 14, 16
13, 15, 17, 19
18, 21, 24, 27

b 11, 9, 7, 5
19, 16, 13, 10
51, 54, 57, 60

8.26

a 28, 32, 36, 40
31, 36, 41, 46
44, 50, 56, 62

b 57, 52, 47, 42
42, 36, 30, 24
99, 95, 91, 87

8.27

a 410, 510, 610, 710
620, 600, 580, 560
520, 625, 730, 835

b 965, 955, 945, 935
400, 425, 450, 475
510, 495, 480, 465

8.28

a 624, 725, 826, 927
217, 236, 255, 274
528, 418, 308, 198

b 6133, 6031, 5929, 5827
3025, 3150, 3275, 3400
5550, 6800, 8050, 9300

8.29

a 5, 9, 13, 17, 21
14, 17, 20, 23, 26
14, 20, 26, 32, 38

b 56, 61, 66, 71, 76
20, 26, 32, 38, 44
31, 40, 49, 58, 67

Bls. 112

8.30

a 0 - 2 - 4 - 6 - 8 - 0

b 0 - 3 - 6 - 9 - 2 - 5 - 8 - 1 - 4 - 7 - 0

c 4. hvern stein:

0 - 4 - 8 - 2 - 6 - 0 - 4 - o.s.frv.

5. hvern stein:

0 - 5 - 0 - 5 - 0 o.s.frv.

6. hvern stein:

0 - 6 - 2 - 8 - 4 - 0 - 6 o.s.frv.

7. hvern stein:

0 - 7 - 4 - 1 - 8 - 5 - 2 - 9 - 6 - 3 - 0 o.s.frv.

8. hvern stein:

0 - 8 - 6 - 4 - 2 - 0 - 8 o.s.frv.

9. hvern stein:

0 - 9 - 8 - 7 - 6 - 5 - 4 - 3 - 2 - 1 - 0 - 9 o.s.frv.

8.31 Mismunandi svör: Til dæmis.

1 - 4 - 7 - 10 - 13

1 - 4 - 9 - 16 - 25

1 - 4 - 13 - 40 - 121

1 - 4 - 1 - 4 - 1 - 4

1 - 4 - 10 - 19 - 31

8.32

a 2 - 4 - 8 - 16 - 32 - 64 - 128

b 3 - 6 - 9 - 12 - 15 - 18 - 21

c 240 - 120 - 60 - 30 - 15 - 7,5

d 1 - 4 - 9 - 16 - 25 - 36

Bls. 113

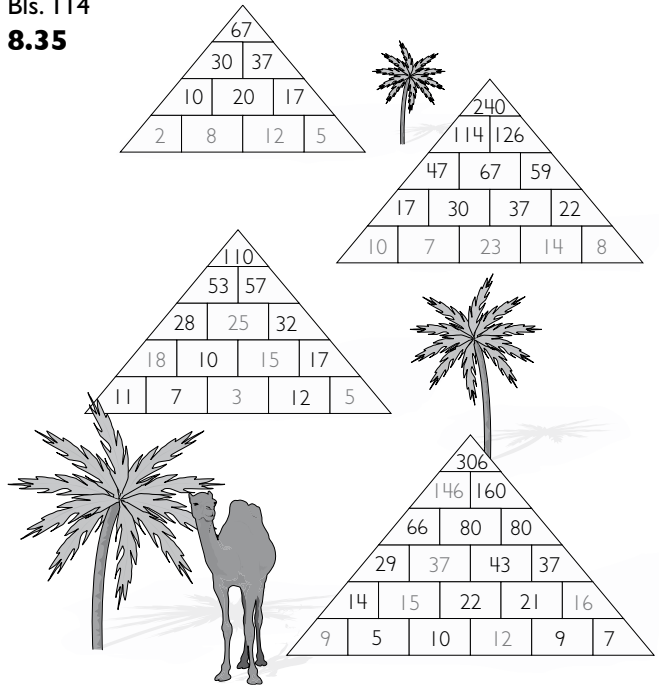
8.33

a 3 **b** (Tígul) 7

8.34

a Tígul 9 **b** Laufa 7

Bls. 114

8.35

Bls. 115

8.37

a

10	5	12
11	9	7
6	13	8

Summa 27

b

50	60	10
0	40	80
70	20	30

Summa 120

d

10	20	6
8	12	16
18	4	14

Summa 36

c

19	6	5	16
8	13	14	11
12	9	10	15
7	18	17	4

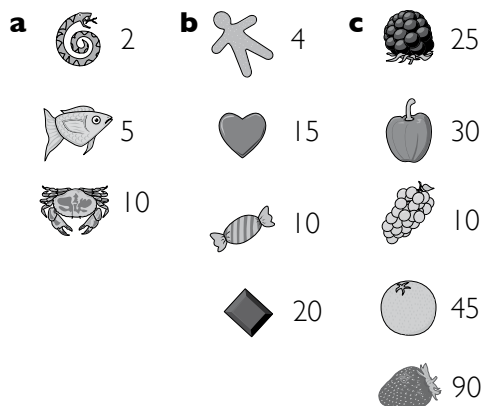
Summa 46

e

26	16	24	2
4	22	14	28
6	20	12	30
32	10	18	8

Summa 68

Bls. 116

8.38

Bls. 117

8.39

a

58	+	17	=	75
-		-		-
35	+	2	=	37
=		=		=
23	+	15	=	38

b

56	-	40	=	16
-		=		-
16	-	8	=	8
=		.		=
40	:	5	=	8

8.40

.	9	5	6	7	2	3	10	8	4
3	27	15	18	21	6	9	30	24	12
2	18	10	12	14	4	6	20	16	8
6	54	30	36	42	12	18	60	48	24
9	81	45	54	63	18	27	90	72	36
5	45	25	30	35	10	15	50	40	20
7	63	35	42	49	14	21	70	56	28
3	27	15	18	21	6	9	30	24	12
4	36	20	24	28	8	12	40	32	16
8	72	40	48	56	16	24	80	64	32

Bls. 118

8.41

a $\begin{array}{r} 421 \\ + 243 \\ \hline 664 \end{array}$ **b** $\begin{array}{r} 543 \\ + 252 \\ \hline 795 \end{array}$ **c** $\begin{array}{r} 836 \\ + 543 \\ \hline 1379 \end{array}$

8.42

a $\begin{array}{r} 2493 \\ + 1372 \\ \hline 3865 \end{array}$ **b** $\begin{array}{r} 5285 \\ + 3753 \\ \hline 9038 \end{array}$ **c** $\begin{array}{r} 6297 \\ + 2372 \\ \hline 8669 \end{array}$

8.43

a $\begin{array}{r} 895 \\ - 533 \\ \hline 362 \end{array}$ **b** $\begin{array}{r} 763 \\ - 292 \\ \hline 471 \end{array}$ **c** $\begin{array}{r} 503 \\ - 245 \\ \hline 258 \end{array}$

8.44

a $\begin{array}{r} 3459 \\ - 1257 \\ \hline 2202 \end{array}$ **b** $\begin{array}{r} 8450 \\ - 5232 \\ \hline 3218 \end{array}$ **c** $\begin{array}{r} 2850 \\ - 1238 \\ \hline 1612 \end{array}$

8.45

a $\begin{array}{r} 7623 \\ - 5311 \\ \hline 2312 \end{array}$ **b** $\begin{array}{r} 4971 \\ - 3835 \\ \hline 1136 \end{array}$ **c** $\begin{array}{r} 8403 \\ - 7552 \\ \hline 851 \end{array}$

8.46

Mismunur þessara tveggja stafa talna eru tölur í 9-töflunni.

- 90 - 09 = 81
- 81 - 18 = 63
- 63 - 36 = 27
- 72 - 27 = 45
- 54 - 45 = 09
- 90 - 09 = 81 o.s.frv.

Bls. 119

8.47

- a** $2 + 2 = 4; 4 + 4 = 8; 8 + 1 = 9$
 $7 + 7 + 15 = 29$ $7 + 7 = 14; 14 + 14 = 28; 28 + 1 = 29$
 $10 \cdot 2 + 21 = 41$ $10 + 10 = 20; 20 + 20 = 40; 40 + 1 = 41$
 $22 \cdot 2 + 45 = 89$ $2 \cdot 22 = 44; 2 \cdot 4 = 88; 88 + 1 = 89$

- b** Já, vegna þess að $(3 + 3) + 7 = 13$
 $3 + 3 = 6; 2 \cdot 6 = 12; 12 + 1 = 13$
- c** Já, vegna þess að $(5 + 5) + 11 = 21$
 14 gengur ekki
- d** Það getur ekki kastað út sléttum tölum vegna þess að þegar tala er tvöfölduð verður hún slétt. Ef 1 er bætt við slétta tölu verður summan oddatala.

Bls. 120

8.48

- a** $3 \rightarrow 15$
 $6 \rightarrow 30$
 $8 \rightarrow 40$
 $13 \rightarrow 65$

b Nei

c Getur kastað út 20 en ekki 34.

d Hann getur aðeins kastað út tölum í 5-töflunni vegna þess að margföldun með 10 og síðan deiling með 2 samsvarar því að margfalda með 5.

Bls. 121

8.49 Margfaldaði tölurnar með 3.

8.50 Mismunandi lausnir

Bls. 123

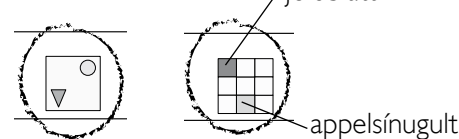
Próf

I Mismunandi teikningar

2



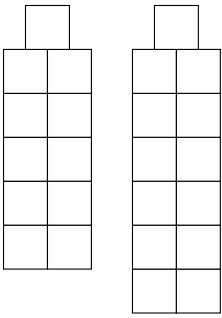
3



Bls. 124 – Próf framhald

4

a



b og d

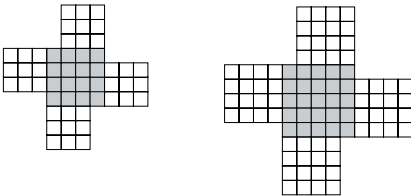
Mynd	1	2	3	4	5	6
Fjöldi reita	5	7	9	11	13	15

c 11 reitir

e 33 reitir

5

a



Mynd	Fjöldi reita
1	8
2	25
3	52
4	89
5	136
6	193

c Mismunurinn eykst um 10 með hverri mynd.

6

a 33 – 35 – 37

75 – 85 – 95

276 – 175 – 74

b 40 – 48 – 56

236 – 245 – 254

270 – 810 – 2430

Bls. 125

Æfingasíða 1

8.51

a 20 – 22 – 24

88 – 85 – 82

17 – 20 – 23

b 550 – 660 – 770

415 – 405 – 395

620 – 519 – 418

8.52

a 18, 21, 24, 27, 30, 33

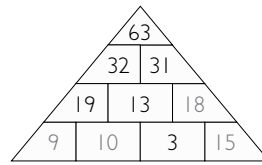
b 21, 28, 35, 42, 49, 56, 63

c 7, 14, 28, 56, 112, 224, 448, 896

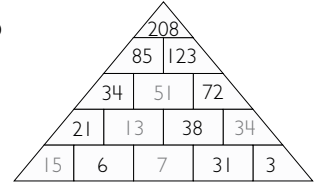
d 10 000, 4000, 1000, 250

8.53

a



b



Bls. 126

Æfingasíða 2

8.54

Mynd	Fjöldi litaðra þríhyrninga	Fjöldi hvítra þríhyrninga
1	3	1
2	9	4
3	27	13

c Fjöldi grárra þríhyrninga í hverri mynd fæst með því að margfalda fjölda þeirra í fyrri mynd með 3. Fjöldi hvítra þríhyrninga er jafn summu gráu og hvítu þríhyrninganna í myndinni á undan.

b Frh.

Mynd	Fjöldi litaðra þríhyrninga	Fjöldi hvítra þríhyrninga
4	81	40
5	243	121

8.55 Summa tveggja þríhyrninga hlið við hlið er í þríhyrningnum fyrir neðan þá báða.

Bls. 127

Æfingasíða 3

8.56

a 10

c 15

d 21

Bls. 128

Geturðu þetta?

8.57

Súkkulaði: 15 krónur

Dropar: 12 krónur

Hlaupkallar: 25 krónur

8.58

a 312, 624 og 936

b 2134

(og 4288 ef reiknað er með minnstu þversummu)