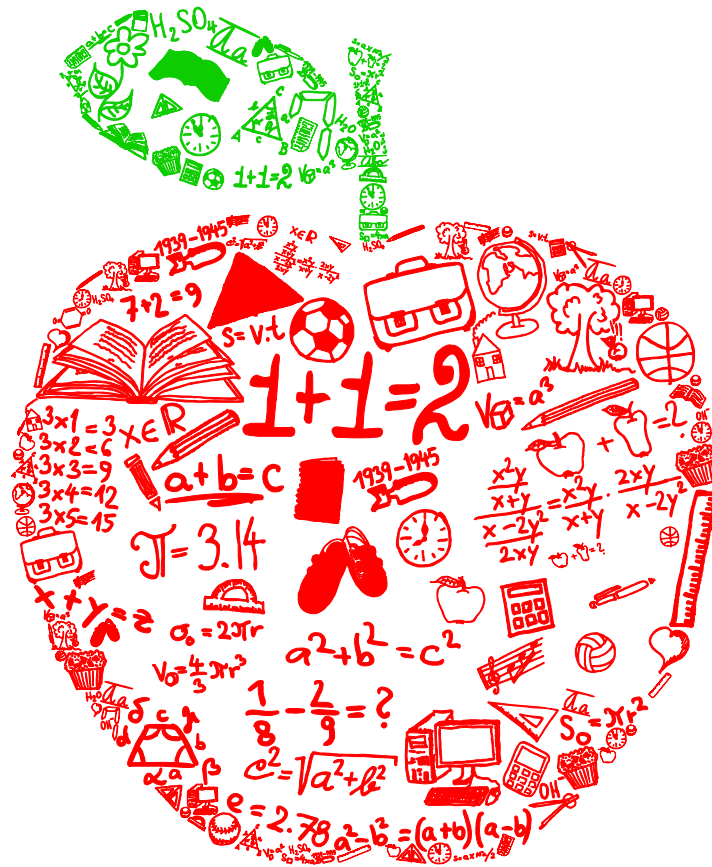


# Stærðfræðikennarinn

## Tölur

fyrir nemendur í 8. – 9. bekk



# Sýnilausnir

með dæmahefti

## Efnisyfirlit

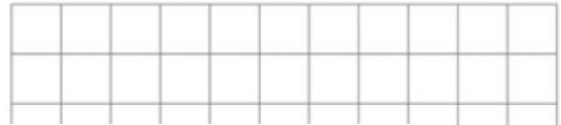
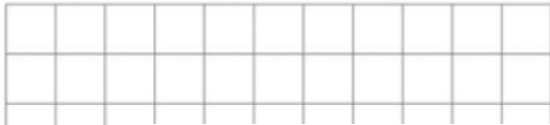
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## 1. Frumtölur - dæmi á myndböndum

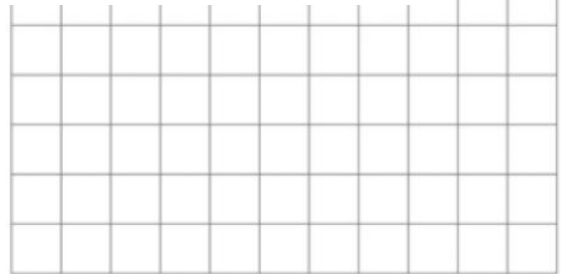
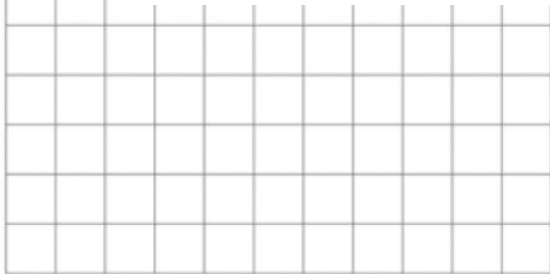
Finndu út hvort tölurnar eru frumtölur.

1.  $445 =$  \_\_\_\_\_

2.  $209 =$  \_\_\_\_\_

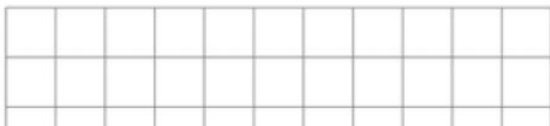


Útreikningar eru á myndböndum

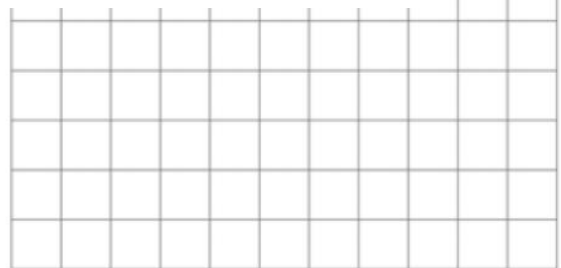
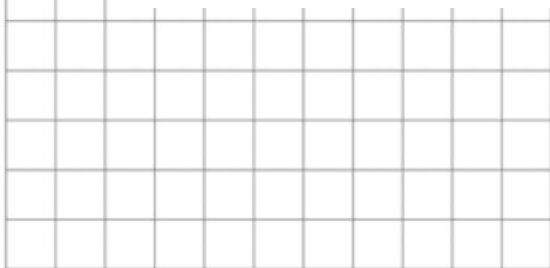


3.  $782 =$  \_\_\_\_\_

4.  $13 =$  \_\_\_\_\_



Útreikningar eru á myndböndum









## 2. Frumpáttun - dæmi á myndböndum

Frumpáttaðu.

1.  $9 =$  \_\_\_\_\_

2.  $15 =$  \_\_\_\_\_

Útreikningar eru á myndböndum

3.  $16 =$  \_\_\_\_\_

4.  $86 =$  \_\_\_\_\_

Útreikningar eru á myndböndum



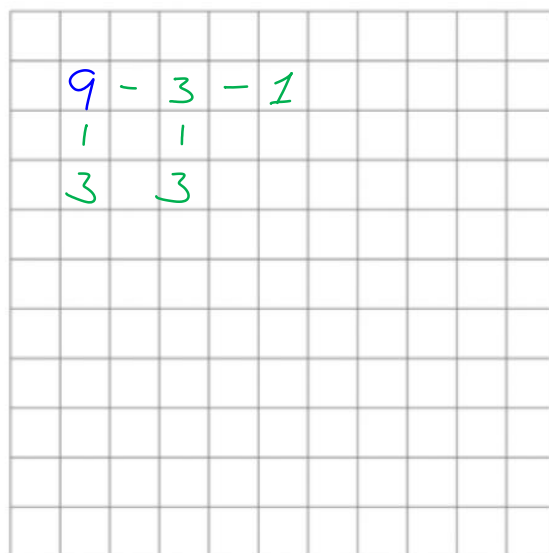
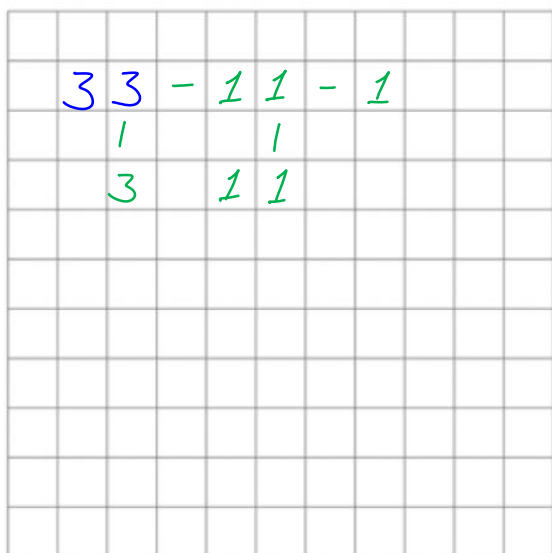


## 2. Frumpáttun - æfingadæmi

Frumpáttaðu.

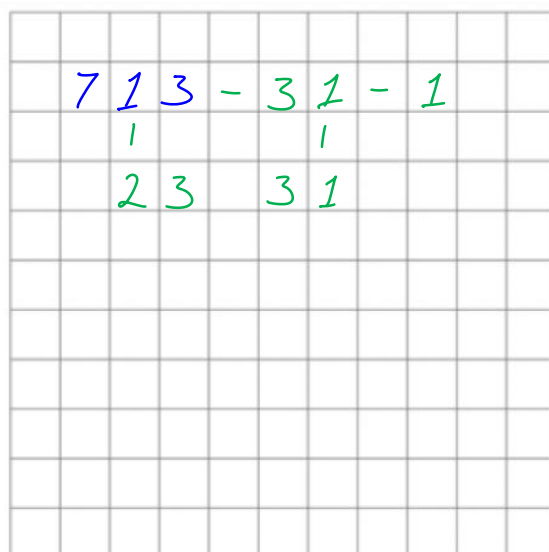
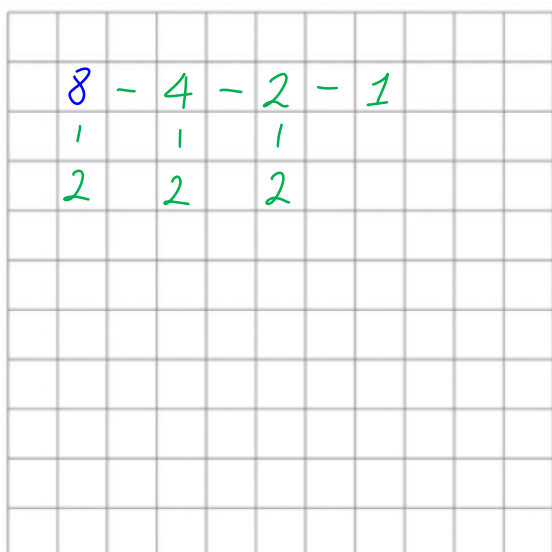
1.  $33 = \underline{3-11}$

2.  $9 = \underline{3-3}$



3.  $8 = \underline{2-2-2}$

4.  $713 = \underline{23-31}$







### 3. Ferningstölur - dæmi á myndböndum

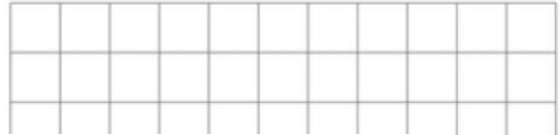
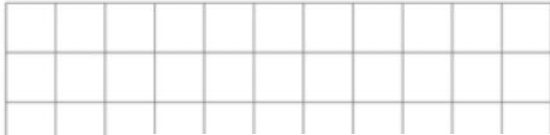
Finndu ferningstöluna.

1.  $2^2 =$

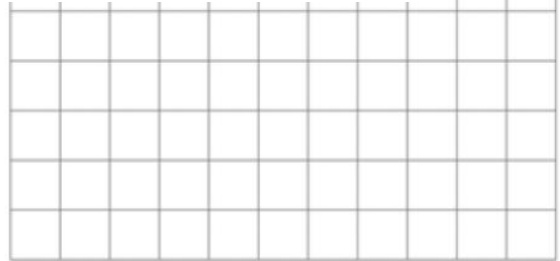
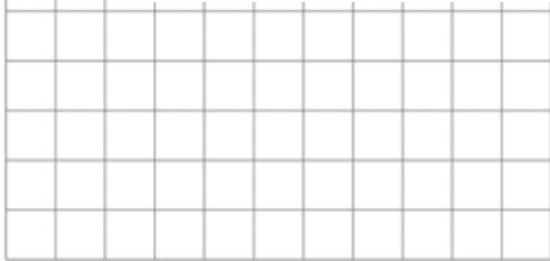
\_\_\_\_\_

2.  $5^2 =$

\_\_\_\_\_



Útreikningar eru á myndböndum

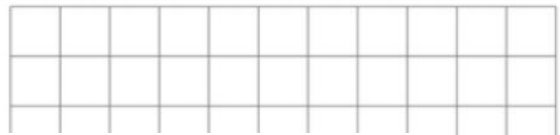
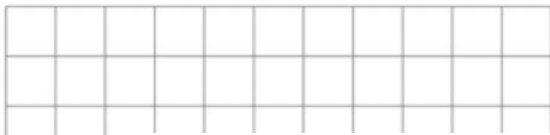


3.  $13^2 =$

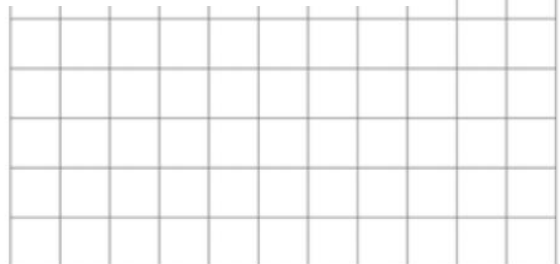
\_\_\_\_\_

4.  $25^2 =$

\_\_\_\_\_



Útreikningar eru á myndböndum



### 3. Ferningstölur - æfingadæmi

Finndu ferningstöluna.

1.  $12^2 = 144$

$$12^2 = 12 \cdot 12$$
$$= \underline{\underline{144}}$$

2.  $4^2 = 16$

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

3.  $6^2 = 36$

$$6^2 = 6 \cdot 6 = \underline{\underline{36}}$$

4.  $15^2 = 225$

$$15^2 = 15 \cdot 15$$
$$= \underline{\underline{225}}$$

Finndu ferningstöluna.

5.  $9^2 = 81$

$$9^2 = 9 \cdot 9 = \underline{\underline{81}}$$

6.  $12^2 = 144$

$$12^2 = 12 \cdot 12 \\ = \underline{\underline{144}}$$

7.  $33^2 = 1089$

$$33^2 = 33 \cdot 33 \\ = 1089$$

8.  $86^2 = 7396$

$$86^2 = 86 \cdot 86 \\ = 7396$$

Finndu ferningstöluna.

9.  $56^2 = \underline{3136}$

$$56^2 = 56 \cdot 56$$

$$= 3136$$

10.  $65^2 = \underline{4225}$

$$65^2 = 65 \cdot 65$$

$$= 4225$$

11.  $78^2 = \underline{6084}$

$$78^2 = 78 \cdot 78$$

$$= 6084$$

12.  $84^2 = \underline{7056}$

$$84^2 = 84 \cdot 84$$

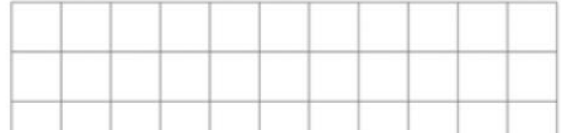
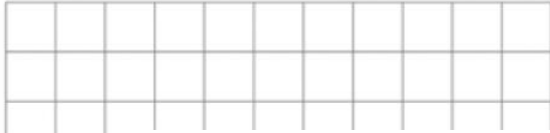
$$= 7056$$

## 4. Ferningsrætur - dæmi á myndböndum

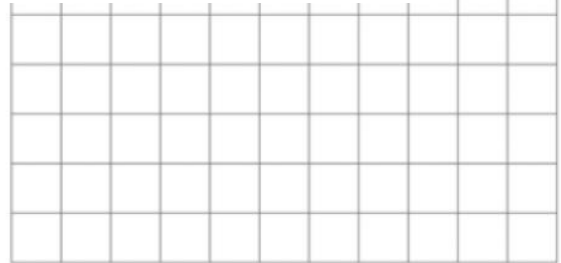
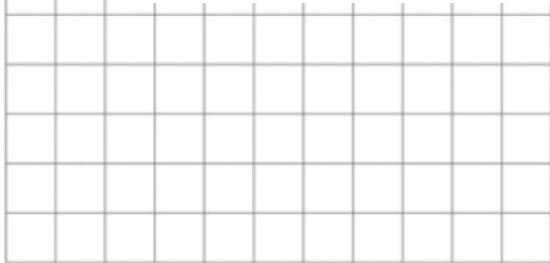
Reiknaðu ferningsrótina.

1.  $\sqrt{361} =$  \_\_\_\_\_

2.  $\sqrt{256} =$  \_\_\_\_\_

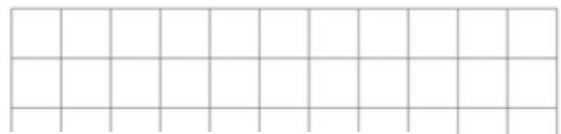
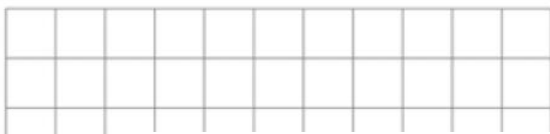


**Útreikningar eru á myndböndum**



3.  $\sqrt{529} =$  \_\_\_\_\_

4.  $\sqrt{973} =$  \_\_\_\_\_



**Útreikningar eru á myndböndum**



## 4. Ferningsrætur - æfingadæmi

Finndu ferningsrætur talnanna.

1.  $\sqrt{144} = \underline{12}$

$$\sqrt{144} = \underline{12}$$

$$12 \cdot 12 = 144$$

2.  $\sqrt{49} = \underline{7}$

$$\sqrt{49} = \underline{7}$$

$$7 \cdot 7 = 49$$

3.  $\sqrt{289} = \underline{17}$

$$\sqrt{289} = \underline{17}$$

$$17 \cdot 17 = 289$$

4.  $\sqrt{529} \approx \underline{20,7}$

$$\sqrt{529} \approx \underline{20,7}$$

$$20,7 \cdot 20,7 \approx 529$$

Finndu ferningsrætur talnanna.

5.  $\sqrt{784} = \underline{28}$

$$\sqrt{784} = \underline{28}$$
$$28 \cdot 28 = 784$$

6.  $\sqrt{16} = \underline{4}$

$$\sqrt{16} = \underline{4}$$
$$4 \cdot 4 = 16$$

7.  $\sqrt{36} = \underline{6}$

$$\sqrt{36} = \underline{6}$$
$$6 \cdot 6 = 36$$

8.  $\sqrt{576} = \underline{24}$

$$\sqrt{576} = \underline{24}$$
$$24 \cdot 24 = 576$$

Finndu ferningsrætur talnanna.

9.  $\sqrt{986} \approx \underline{31,4}$

$$\sqrt{986} \approx \underline{31,4}$$

$$31,4 \cdot 31,4 = 986$$

10.  $\sqrt{401} \approx \underline{20,02}$

$$\sqrt{401} \approx \underline{20,02}$$

$$20,02 \cdot 20,02 \approx 401$$

11.  $\sqrt{528} \approx \underline{22,98}$

$$\sqrt{528} \approx \underline{22,98}$$

$$22,98 \cdot 22,98 \approx 528$$

12.  $\sqrt{360} \approx \underline{18,97}$

$$\sqrt{360} \approx \underline{18,97}$$

$$18,97 \cdot 18,97 \approx 360$$

## 5. Veldistölur - dæmi á myndböndum

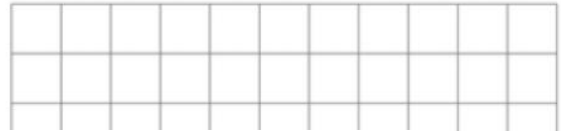
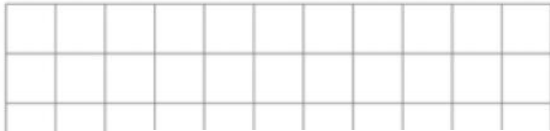
Reiknaðu.

1.  $2^3 =$

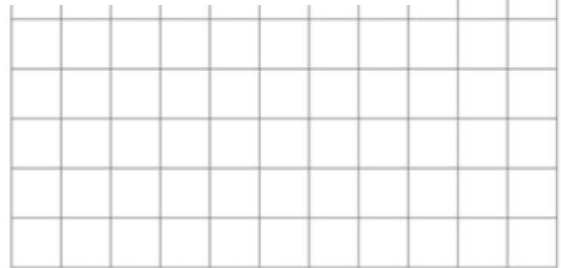
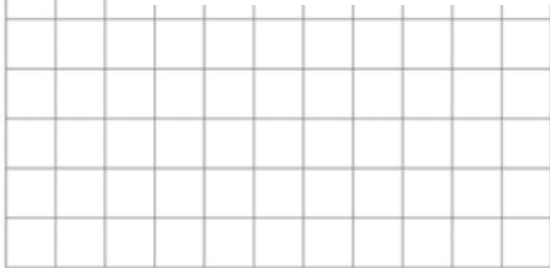
\_\_\_\_\_

2.  $6^4 =$

\_\_\_\_\_



**Útreikningar eru á myndböndum**

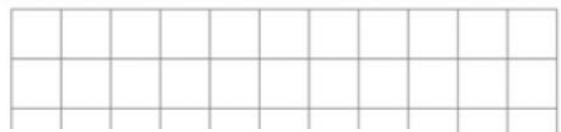
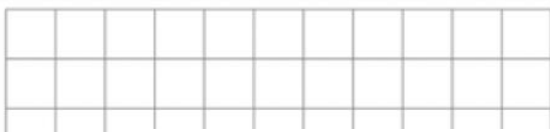


3.  $4^4 =$

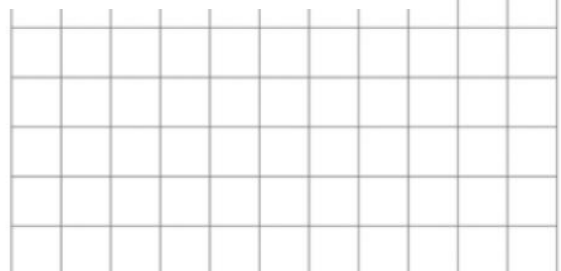
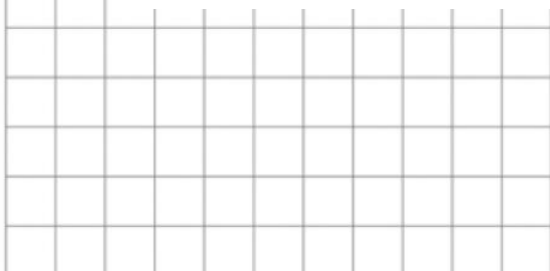
\_\_\_\_\_

4.  $24^3 =$

\_\_\_\_\_



**Útreikningar eru á myndböndum**



## 5. Veldistölur - æfingadæmi

Reiknaðu.

1.  $1^3 = 1$

2.  $60^1 = 60$

$$1^3 = 1 \cdot 1 \cdot 1 = \underline{\underline{1}}$$

$$60^1 = \underline{\underline{60}}$$

3.  $40^3 = 64000$

4.  $8^3 = 512$

$$40^3 = 40 \cdot 40 \cdot 40$$

$$= \underline{\underline{64000}}$$

$$8^3 = 8 \cdot 8 \cdot 8 = \underline{\underline{512}}$$

Reiknaðu.

5.  $3^4 = 81$

$$3^4 = 3 \cdot 3 \cdot 3 \cdot 3$$
$$= \underline{\underline{81}}$$

6.  $12^3 = 1728$

$$12^3 = 12 \cdot 12 \cdot 12$$
$$= \underline{\underline{1728}}$$

7.  $7^4 = 2401$

$$7^4 = 7 \cdot 7 \cdot 7 \cdot 7$$
$$= \underline{\underline{2401}}$$

8.  $50^2 = 2500$

$$50^2 = 50 \cdot 50$$
$$= \underline{\underline{2500}}$$

Reiknaðu.

9.  $15^3 = \underline{3375}$

$$15^3 = 15 \cdot 15 \cdot 15$$

$$= \underline{3375}$$

10.  $3^7 = \underline{2187}$

$$3^7 = 3 \cdot 3 \cdot 3 \cdot 3 \cdot$$

$$3 \cdot 3$$

$$= \underline{2187}$$

11.  $41^2 = \underline{1681}$

$$41^2 = 41 \cdot 41$$

$$= \underline{1681}$$

12.  $16^3 = \underline{4096}$

$$16^3 = 16 \cdot 16 \cdot 16$$

$$= \underline{4096}$$