

CERFLA

**HIISA**  
fudðorde

*Janvier 2023*



## KONGOL HOOREEJO CERFLA

**N**dee deftere inniraande Jande Hiisa fuddorde ari ko duusde jannginoobe e widtoobe demngal fulfulde mbele fooyre maggal ina yaynanoo humiibe e mbinndi e nder Afrik fof, riiwtana be nibbere e majjere.

CERFLA booyi jannginde e nder Senegaal, haa teenji noon e diiwaan Ferlo e Jolof, burdo oo hebtinireede ndema e ngaynaaka.

Darnde CERFLA wonaa tan winndude e janngude, ko yoo neddo naftoro ko janngi koo e kala gede bambaare. Duum saabii jande ndee yahdinaa e gede bambaare godde, ko wayi no yeewtagol cellal, yubbo dente, yellitgol rewbe, moyyitingol taariindi, kabtagol baasal, ekn.

Caggal nde CERFLA humpitii wonde ngoy'aaji yimbe bee tigi tigi ko nakkere kuutorde e kabirde jahdude e nguurndam mabbe, o felliti muulande be fannuui tati defte :

- defte janngoobe : Taro fuddorde e Hiisa fuddorde
- deftere ruttorde : Jande Celluka e Mbinndiin Pulaar.

Eden daminii wonde ndee deftere maa jabbe no haanirta nii, haa teenji noon e jannginoobe, hebloobe, walla widtoobe.

Eden mbiya be, ko kamen muulanaa ndee deftere. Eden ñaagoo Geno yo nde wonan be bural.

*On njaaraama.*

Hooreejo CERFLA



## LELNGO DEFTERE NDEE

Ndee deftere Hiisa (fuddorde), wadi ko tay'e 15 mawde caggal hello lime pulaar ngo. Heen damal fof uddiraa ko Rewto

### TAYRE 1 : JANDE LIME

Janngatee e mayre ko lime mehe dee, tuggi 0 haa 9. De loowaa ko e janngande tati : 0 haa 3 haa, 4 haa 6, 7 haa 9.

1. Heen janngannde fof lime mum ngadii ko looweede e nate. Janngoobe be yeewat-de tawo haa nganda natal fof gede loowaade e mum de no poti. Ndeen lowre wi'tee ko **Yeew no foti**.
2. So be ngasnii yeewde, be naatana njanngude de. Be ndewa, be ndeftoo, haa digga. Ndeen lowre wi'etee ko **Taren**.
3. So diggii, be naatana janngude heen limre fof no winndirtee. Ndeen lowre wi'etee ko **Mbinnden**.
4. Lowe tati dee fof njanngaama haa mbaawaa, be naatana **Ekkorde**

E nder ekkorde de, be etoto winnditaade lime de, be tara de.

### TAYRE 2 : JANDE NDADDUDI

Ngal damal janngatee e mum ko no daddirtee. Janngoowo waawa feccude ye'e potde limooje. O seernda timmude e teelde. Yeruuji yettaadi doo di ko didi-didiije e tati-tatiije. Daddule godde ina mbaawi yetteede, ko wayi no joyi-joyiiji ni.

### TAYRE 3 : JANDE LIMANDE 10

Janngatee doo ko no lime didi ndentinirtee ngonta limre wootere. Ardiinde nde heeda e senngo wi'eteengo sappooji walla cappande, wadtiniinde nde heeda e senngo go'owuuji. Ko doo janngoobe kolletee no haatumeere limande darnirtee.

#### **TAYRE 4 : JANDE CAPPANDE**

Janngoobe kolletee doo ko no sappooji godfi di mbinndirtee e no di loowirtee e haatumeere limande.

Woorti jande teemedde, ujunnaaje e njubbudi kaalis, tay'e hiisa dewde heen de fof innii ko'e mumen. De njannginta ko no beydirtee, no ustirtee, no sowretee, no feccirtee. Ko doggol majje woni les doo.

#### **TAYRE 5 : JANDE BEYDONDIRAL NGAL ALAA EGGINGOL**

#### **TAYRE 6 : JANDE USTONDIRAL NGAL ALAA EGGINGOL**

#### **TAYRE 7 : JANDE TEEMEDDE**

#### **TAYRE 8 : JANDE BEYDONDIRAL LIME DIDI NGAL ALAA EGGINGOL**

#### **TAYRE 9 : JANDE BEYDONDIRAL BADNGAL EGGINGOL**

#### **TAYRE 10 : JANDE USTUGOL LIME DIDI NGOL ALAA EGGINGOL**

#### **TAYRE 11 : JANDE USTUGOL BADNGOL EGGINGOL**

#### **TAYRE 12 : JANDE COWGOL NGOL ALAA YOWRE**

#### **TAYRE 13 : JANDE PECCUGOL NGOL ALAA YOWRE**

#### **TAYRE 14 : JANDE UJUNNAAJE (LIMANDE 1000)**

#### **TAYRE 15 : NJUBBUDI KAALIS**

## LOOWDI DEFTERE NDEE

|                                                            |           |
|------------------------------------------------------------|-----------|
| <b>LIME PULAAR</b>                                         | <b>8</b>  |
| <b>JANDE LIME</b>                                          | <b>9</b>  |
| Jannde lime 0 haa 3                                        | 9         |
| Jannde lime 4 haa 6                                        | 11        |
| Jannde lime 7 haa 9                                        | 13        |
| <i>Rewto</i>                                               | <i>14</i> |
| <b>JANDE NDADDUDI</b>                                      | <b>15</b> |
| <b>JANDE LIMANNDE 10</b>                                   | <b>17</b> |
| <b>JANDE CAPANDE</b>                                       | <b>19</b> |
| <i>Ekkorde</i>                                             | <i>20</i> |
| <b>JANDE BEYDONDIRAL NGAL ALAA EGGINGOL</b>                | <b>21</b> |
| <b>JANDE USTUGOL NGOL ALAA EGGINGOL (PUSGOL)</b>           | <b>23</b> |
| <i>Rewto</i>                                               | <i>24</i> |
| <b>JANDE TEEMEDDE</b>                                      | <b>25</b> |
| <b>JANDE BEYDONDIRAL NGAL LIME DIDI NGAL ALAA EGGINGOL</b> | <b>27</b> |
| <b>JANDE BEYDONDIRAL BADNGAL EGGINGOL</b>                  | <b>29</b> |
| <b>JANDE USTUGOL NGOL LIME DIDI, NGOL ALAA EGGINGOL</b>    | <b>31</b> |
| <b>JANDE USTUGOL BADNGOL EGGINGOL (PUSGOL)</b>             | <b>33</b> |
| <i>Tesko</i>                                               | <i>34</i> |
| <b>JANDE COWGOL NGOL ALAA YOWRE</b>                        | <b>35</b> |
| <b>JANDE PECCUGOL NGOL ALAA YOWRE</b>                      | <b>37</b> |
| <i>Rewto</i>                                               | <i>38</i> |
| <b>JANDE LIMANNDE 1000</b>                                 | <b>39</b> |
| <b>JANDE UJUNNAAJE</b>                                     | <b>41</b> |
| <b>JANDE COWGOL BADNGOL YOWRE</b>                          | <b>43</b> |
| <b>JANDE PECCUGOL BADNGOL YOWRE E EGGINGOL</b>             | <b>45</b> |
| <i>Rewto</i>                                               | <i>46</i> |
| <b>NJUBBUDI KAALIS</b>                                     | <b>48</b> |
| <b>HUUNDE E ALLUJE KUUTORDE COWGOL</b>                     | <b>51</b> |
| <i>Rewto huubtidinngo</i>                                  | <i>52</i> |

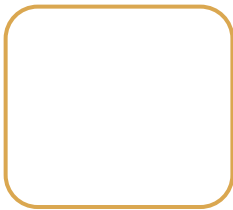
## LIME PULAAR

0 1 2 3 4 5  
6 7 8 9

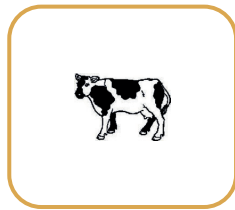
# JANDE LIME

Jande lime tuggi 0 haa 3

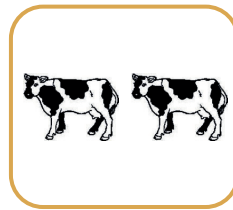
Yeew no foti



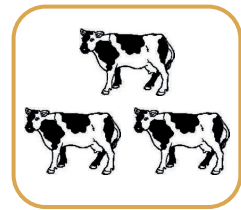
0



1



2

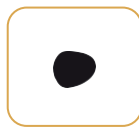


3

Taren



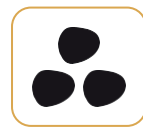
0



1



2



3

Mbinnden

()

()

0

1

1

1

2

2

2

3

3

3

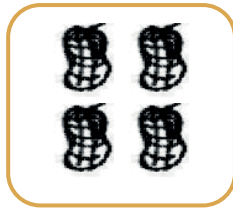
## Ekkorde

Mbinnden, taren

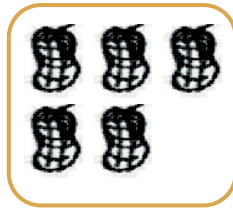
|   |   |   |   |
|---|---|---|---|
| 0 | 1 | 2 | 3 |
| 1 | 0 | 2 | 3 |
| 2 | 1 | 0 | 3 |
| 3 | 2 | 1 | 0 |

## Jande lime tuggi 4 haa 6

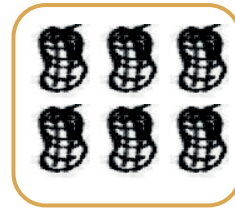
Yeew no foti



4



5



6

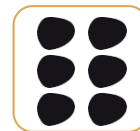
Taren



4



5



6

Mbinnden

4

4

4

5

5

5

6

6

6

## Ekkorðe

**Mbinnden, taren**

4      5      6

4      6      5

5      4      6

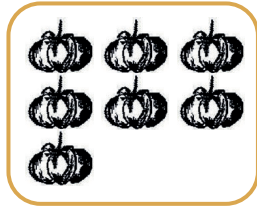
5      6      4

6      5      4

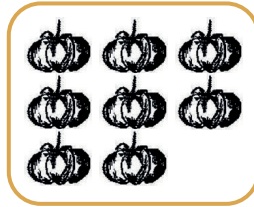
6      4      5

# Jan de lime tuggi 7 haa 9

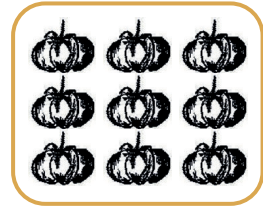
Yeew no foti



7

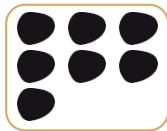


8

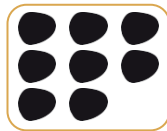


9

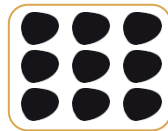
Taren



7



8



9

Mbinnden

7

7

7

8

8

8

9

9

9

## REWTO

**Taren :**

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

**Mbinnden :**

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

**Fido :**

|   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|
| 8 | 6 | 7 | 3 | 5 | 0 | 2 | 4 | 1 |
|---|---|---|---|---|---|---|---|---|

## JANDE NDAD'DUDI

### Ndad'dudi didi-didiije

Yetten kaay'e tati (5) ndad'den dūm yele didi-didiije (kaay'e didi fof ko yelo)



***Naamne:***

Hol no foti yele didi-didiije  
ndad'du-den ?

***Jaabawuuj:***

Ndad'du-den ko yele didi

Hol no foti kaay'e teeli ?

Teeli ko haayre wootere

### Ndad'dudi tati-tatiije

Yetten kaay'e jeetati (8), mba-den yele tati-tatiije ( kaay'e tati fof ko yelo)



***Naamne:***

Hol no foti yele tati-tatiije  
ndañ-den ?

***Jaabawuuj:***

Ndañ-den ko yele didi

Hol no foti kaay'e teeli ?

Teeli ko kaay'e didi

***Tesko :*** Kala ko timmaani ndad'dudi, teelat

## Ekkorde

### Ekkorde 1 :



No foti nayi-nayiiiji  
ngoni e basalle dee ? = .....

No foti basalle teeli ? = .....



No foti ndadfdudi tatitaiiji  
woni e kaaye de ? = .....

No foti kaaye teeli ? = .....

### Ekkorde 2 :

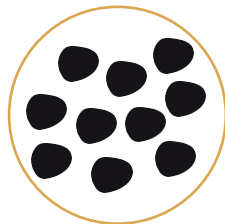
Limande dee doo e ndadfdudi mbiyaandi :

| Lime | Ndadfdudi | No foti ndadfdule | No foti teeli |
|------|-----------|-------------------|---------------|
| 20   | 3         | .....             | .....         |
| 15   | 5         | .....             | .....         |
| 12   | 4         | .....             | .....         |
| 21   | 6         | .....             | .....         |
| 11   | 4         | .....             | .....         |

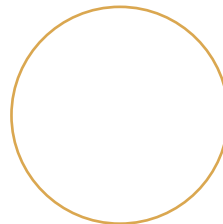
## JANDE LIMANDE 10

### a. Ndadden :

Yetten kaay'e sappo, ndadden dum e ndadɗudi sappo-sappooji.  
Mbinnden les keewal yele dee. So de teelii mbinnden ko teeli ko.  
So de teelaani mbinnden les do keewal teelde do hay dara :



1



0

### b. Cilen 10:

yele

1

teelde

0

#### *Naamne*

E nder sappo mo ndadɗu-  
den o, no foti go'owuuji  
ndañ-den?

#### *Jaabawuuji*

Ndañ-den ko ndiga kaay'e  
teelde walla mbi'en go'owuuji  
dii ko ndiga.

No foti yele ndañ-den  
(walla capande) ?

Ndañ-den ko yelo wooto,  
walla sappannde wootere.  
Ndeen noon, ndañ-den ko yelo  
wooto e ndiga kaay'e teelde.

**Tesko:** Kala ko timmaani ndadɗudi teelat. So eden ndadɗira sappo,  
teelata ko tuggi 0 haa 9. Deen limande mbi'etee ko go'owuuji.

## Ekkorde

### Ekkorde 1 :

1. Taren 10 (sappo)
2. Mbinnden 10 (sappo)
3. Loowen sappo e nder haatumeere limande e Ndaɗɗudi

Haatumeere ndaɗɗudi

|                                                                                   |                                                                                   |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
|  |  |
|  |                                                                                   |

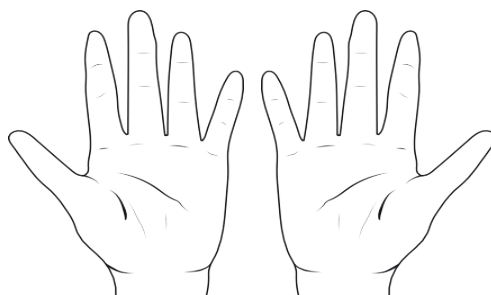
=

Haatumeere limande

| c | g |
|---|---|
| 1 | 0 |

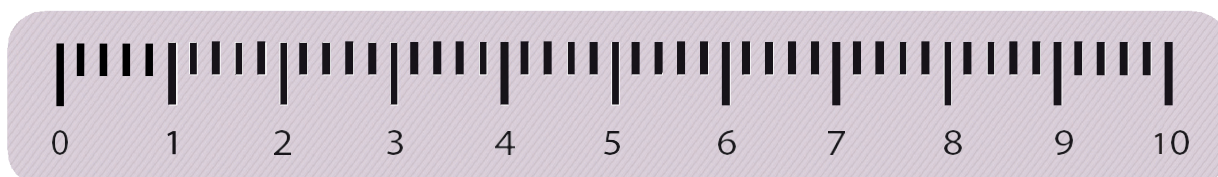
### Ekkorde 2 :

Limen peleedi di mbinnden limannde nde les.



### Ekkorde 3 :

Limen santimeetaruuji di mbinnden limannde nde les.



# JANDE CAPAN'DE

**Taren:** 10 20 30 40 50 60 70 80 90

**Mbinnden:** 10 20 30 40 50 60 70 80 90 99

**Taren:** 11 21 32 43 54 65 76 87 98 99

Loowen e kaatumeeye

*Yeru*

**Haatumeere ndadɗudi**

|  |  |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |                                                                                     |
|  |                                                                                     |
|  |                                                                                     |
|  |                                                                                     |
|  |                                                                                     |
|  |                                                                                     |
|  |                                                                                     |
|  |                                                                                     |
|  |                                                                                     |
|  |                                                                                     |
|  |  |

=

**Haatumeere limande**

| <b>c</b> | <b>g</b> |
|----------|----------|
| 1        | 0        |
| 2        | 0        |
| 3        | 0        |
| 4        | 0        |
| 5        | 0        |
| 6        | 0        |
| 7        | 0        |
| 8        | 0        |
| 9        | 0        |
| 9        | 9        |

## Ekkorde

### Ekkorde 1 :

Taree, mbinndon dee lime e limande

|    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|
| 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  |
| 9  | 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 |
| 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 |
| 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 |
| 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 |
| 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 |
| 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 |
| 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 |
| 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 |
| 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 |
| 97 | 98 | 99 |    |    |    |    |    |

### Ekkorde 2 :

Loowee dee limande e haatumeere ndaddudi e haatumeere limande

10 – 20 – 30 – 40 – 55 – 76 – 84 – 90 – 99

## JANDE 'BEYDONDIRAL NGAL ALAA EGGINGOL

### Fibre hiisa

Tobo Galo Soh soodii jawe 3 to duggere Barkeeji, tawi embo joginoo jawe 5.

Hol no foti jawe Tobo Galo Soh jogii jooni ?

Njanngen no alluwal fibre beydondiral darnirtee.

### Pibtugol fibre ndee

| Feere                   | Njeñcudi | Kiisorde                                                                                                                                                                                                                             |
|-------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tobo Galo Soh jogii ko: |          |                                                                                                                                                                                                                                      |
| j5 + j3                 | j8       | <div><div><div></div><div>c</div><div></div></div><div><div></div><div>g</div><div></div></div><div><div></div><div>5</div><div>3</div></div><div><div></div><div>8</div><div></div></div></div> <div><div>+</div><div>=</div></div> |

## Ekkorde

### Ekkorde 1 :

Ndarnee, kiiso-don dee kiisorde

$$\begin{array}{lll} 2 + 3 = & 13 + 24 = & 35 + 42 = \\ 4 + 5 = & 16 + 11 = & 53 + 31 = \end{array}$$

### Ekkorde 2 :

Hikka, Abu Kan jiggiima gawri ngam mooftude e faawru mum. Abu rendini saakuuji 7. Miñiraado mako totti mo saakuuji 4 yo o mooftan dum.

Hol no foti saakuuji 6e ndendini ?

# JANDE USTUGOL NGOL ALAA EGGINGOL

## Fibre hiisa

Moodi Fari Jallo ina joginoo jawdi 9, o yeeyi heen jawdi 3 to duggere Dooji.

Hol no foti jawdi Moodi Fari Jallo heddorii?

Njanngen no alluwal fibre ustugol darnirtee.

## Pibtugol fibre ndee

| Feere                                   | Njeñcudi | Kiisorde                                                                                                                                      |   |   |  |        |  |   |
|-----------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------|---|---|--|--------|--|---|
| Moodi Fari Jallo<br>heddori e jawdi ko: |          |                                                                                                                                               |   |   |  |        |  |   |
| j9 – j3 =                               | j6       | <div><div>–</div><div>=</div><table><tr><td>c</td><td>g</td></tr><tr><td></td><td>9<br/>3</td></tr><tr><td></td><td>6</td></tr></table></div> | c | g |  | 9<br>3 |  | 6 |
| c                                       | g        |                                                                                                                                               |   |   |  |        |  |   |
|                                         | 9<br>3   |                                                                                                                                               |   |   |  |        |  |   |
|                                         | 6        |                                                                                                                                               |   |   |  |        |  |   |

## REWTO

### Ekkorde 1 :

Ndarnee, kiiso-don dee kiisorde

$8 - 4 =$

$25 - 12 =$

$67 - 33 =$

$6 - 2 =$

$48 - 23 =$

$89 - 56 =$

### Ekkorde 2 :

taren dee limande

27

43

20

58

9

87

### Ekkorde 3 :

Ndarnee, kiiso-don dee kiisorde

$44 + 12 =$

$46 - 23 =$

$35 + 23 =$

$58 - 16 =$

$22 + 54 =$

$87 - 34 =$

$61 + 38 =$

$79 - 58 =$

# JANDE TEEMEDDE

Taren e nder haatumeere: 10 e 100

| c | g |
|---|---|
| 1 | 0 |

| t | c | g |
|---|---|---|
| 1 | 0 | 0 |

Taren, mbinnden dee limande

100 200 300 400 500 600 700 800 900

Loowen limande dee e haatumeere ndaddudi e haatumeere limande

**Haatumeere ndaddudi**

|  |  |  |
|--|--|--|
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

=

**Haatumeere limande**

| t | c | g |
|---|---|---|
| 1 | 0 | 0 |
| 2 | 0 | 0 |
| 3 | 0 | 0 |
| 4 | 0 | 0 |
| 5 | 0 | 0 |

## Ekkorde

### Ekkorde 1 :

Taren, piden, binnden dee limande

|     |     |     |     |     |     |     |     |     |     |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 100 | 101 | 102 | 103 | 104 | 105 | 106 | 107 | 108 | 109 |
| 110 | 111 | 112 | 113 | 114 | 115 | 116 | 117 | 118 | 119 |
| 120 | 121 | 122 | 123 | 124 | 125 | 126 | 127 | 128 | 129 |
| 130 | 131 | 132 | 133 | 134 | 135 | 136 | 137 | 138 | 139 |
| 140 | 141 | 142 | 143 | 144 | 145 | 146 | 147 | 148 | 149 |
| 800 | 801 | 802 | 803 | 804 | 805 | 806 | 807 | 808 | 809 |
| 900 | 901 | 902 | 903 | 904 | 905 | 906 | 907 | 908 | 909 |
| 990 | 991 | 992 | 993 | 994 | 995 | 996 | 997 | 998 | 999 |

### Ekkorde 2 :

Taren tawa wonaa e haatumeere

|     |     |     |     |     |
|-----|-----|-----|-----|-----|
| 102 | 104 | 106 | 108 | 105 |
| 220 | 310 | 450 | 609 | 725 |
| 880 | 925 | 899 | 100 | 999 |

# JANDE 'BEYDONDIRAL LIME 'DIDI NGAL ALAA EGGINGOL

## Fibre hiisa

Aamadu Dulo Soh yahii duggere Baljel, soodii toon kilooji 13 suukara, tawi embo joginoo kilooji 14 suukara.

Hol no foti kilooji suukara Aamadu Dulo Soh jogii ?

Njanngen no alluwal fibre beydondiral lime didi ngal alaa eggingol darnirtee.

## Pibtugol fibre ndee

| Feere         | Njeñcudi | Kiisorde                                                                                                                                                                           |  |   |   |   |   |   |  |   |   |   |   |   |
|---------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---|---|---|---|---|--|---|---|---|---|---|
| Aamadu joggi: |          |                                                                                                                                                                                    |  |   |   |   |   |   |  |   |   |   |   |   |
| k13 - k14     | k27      | <table> <tr> <td></td><td>c</td><td>g</td></tr> <tr> <td>-</td><td>1</td><td>3</td></tr> <tr> <td></td><td>1</td><td>4</td></tr> <tr> <td>=</td><td>2</td><td>7</td></tr> </table> |  | c | g | - | 1 | 3 |  | 1 | 4 | = | 2 | 7 |
|               | c        | g                                                                                                                                                                                  |  |   |   |   |   |   |  |   |   |   |   |   |
| -             | 1        | 3                                                                                                                                                                                  |  |   |   |   |   |   |  |   |   |   |   |   |
|               | 1        | 4                                                                                                                                                                                  |  |   |   |   |   |   |  |   |   |   |   |   |
| =             | 2        | 7                                                                                                                                                                                  |  |   |   |   |   |   |  |   |   |   |   |   |

## Ekkorde

### Ekkorde 1 :

$23 + 34 =$

$43 + 15 =$

$83 + 12 =$

$56 + 42 =$

$33 + 50 =$

$71 + 26 =$

### Ekkorde 2 :

Pibtee ndee doo fibre :

Rewbe Torjoŋ coodanii fedde mumen karne booñ 32 b, pakket bikuuji 42 b e kaadam 25 b.

Hol no fere maɓbe foti ?

Pibtee dūm e alluwal ngal

| Feere | Njeñcudi | Kiisorde |
|-------|----------|----------|
|       |          |          |

# JANDE BEYDONDIRAL BADNGAL EGGINGOL

## Fibre hiisa

Kaaliidu Saajo Bah soodiino baali sappo e jeetati (18) to Beeli Ooli. O yaanori Lummbel-Laana, o soodi doon baali sappo e joyi (15). O soggi fof, o yeeyoyi duggere Yunufere. Hol no foti baali Kaaliidu Saajo Bah yeeyi ?

Njanngen no alluwal fibre beydondiral lime didi ngal alaa eggingol darnirtee.

## Pibtugol fibre ndee

Loowen  $18 + 15 = 33$  e kaatumeeje

| Feere                     | Njeñcudi | Kiisorde                                                                                                                                                                                                            |
|---------------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Kaaliidu yeeyi baali ko : |          |                                                                                                                                                                                                                     |
| <div>b18 - b15</div>      | =        | <div>b33</div>                                                                                                                                                                                                      |
|                           |          | <div><div><div><div>c</div><div>g</div></div><div><div>(1)</div><div>1</div><div>8</div></div><div><div>1</div><div>5</div></div><div><div>3</div><div>3</div></div></div><div><div>+</div><div>=</div></div></div> |

### H. ndaɗɗudi

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+

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### H. limande

|   |          |   |
|---|----------|---|
| t | c        | g |
|   | (1)<br>1 | 8 |
|   | 1        | 5 |
|   | 3        | 3 |

## Ekkorde

### Ekkorde 1 :

Njaltinen dūm e kaatumeeje dē, kiisoden limandē gonde les dēe :

$$\begin{array}{r} (1) \\ 29 \\ + 16 \\ \hline = \end{array}$$

#### *Tesko:*

Kaalen dūm haa laaba so en ndarnii hiisorde, ngadoto-dēn beydondirde ko go'owuuji ( $9 + 6 = \dots\dots$ ). Jooni noon, en mbaawataa winndude ko dañaa ko fof e les go'owuuji dī tan. Winndetee e suudu go'owuuji ko limre wootere. Ndeen noon, maa heddo sappannde wootere nde winndaaka.

Ndeen sappannde tawtoyat suudu capandē. Ko dūum woni ko yowaa e dow suudu capandē ndu wadaa hakkunde laañe ( ). Ko ndeen, mbaawaten beydondirde capandē dē ( $\dots + \dots + \dots = \dots\dots$ ) so en tonngii, mbi'en:

### Ekkorde 2 :

$24 + 17 =$

$25 + 48 =$

$145 + 67 =$

$47 + 19 =$

$16 + 7 =$

$383 + 138 =$

## JANDE USTUGOL LIME 'DIDI NGOL ALAA EGGINGOL

### Fibre hiisa

Jeynaba Jah ina joginoo gertoode 25, o yeeyii heen gertoode 13.  
Hol no foti Jeynaba heddorii e gertoode ?

Njanngen no alluwal fibre ustugol lime didi ngol alaa eggingol darnirtee.

### Pibtugol fibre ndee

| Feere                                  | Njeñcudi | Kiisorde                                                                                                                            |   |   |   |   |   |   |   |   |
|----------------------------------------|----------|-------------------------------------------------------------------------------------------------------------------------------------|---|---|---|---|---|---|---|---|
| Jeynaba heddorii ko :<br><br>g25 – g13 | g12      | <table><tr><td>c</td><td>g</td></tr><tr><td>2</td><td>5</td></tr><tr><td>1</td><td>3</td></tr><tr><td>1</td><td>2</td></tr></table> | c | g | 2 | 5 | 1 | 3 | 1 | 2 |
| c                                      | g        |                                                                                                                                     |   |   |   |   |   |   |   |   |
| 2                                      | 5        |                                                                                                                                     |   |   |   |   |   |   |   |   |
| 1                                      | 3        |                                                                                                                                     |   |   |   |   |   |   |   |   |
| 1                                      | 2        |                                                                                                                                     |   |   |   |   |   |   |   |   |

## Ekkorde

### Ekkorde 1 :

Tunnaabe comiima saakuuji 58 murtoode. Be njeeyti heen 16 Bushraa Madiinanaabe. No foti be keddoraa ?

Loowee jaabawol mon e alluwal ngal

| Feere | Njeñcudi | Kiisorde                                                                                                                      |   |   |  |  |  |  |  |  |
|-------|----------|-------------------------------------------------------------------------------------------------------------------------------|---|---|--|--|--|--|--|--|
|       |          | <table><tr><td>c</td><td>g</td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table> | c | g |  |  |  |  |  |  |
| c     | g        |                                                                                                                               |   |   |  |  |  |  |  |  |
|       |          |                                                                                                                               |   |   |  |  |  |  |  |  |
|       |          |                                                                                                                               |   |   |  |  |  |  |  |  |
|       |          |                                                                                                                               |   |   |  |  |  |  |  |  |

### Ekkorde 2 :

Ndarnee dee doo kiisorde kiiso-don de :

$$79 - 17 = \dots\dots\dots$$

|   |   |
|---|---|
| c | g |
|   |   |
|   |   |
|   |   |

$$48 - 22 = \dots\dots\dots$$

|   |   |
|---|---|
| c | g |
|   |   |
|   |   |
|   |   |

$$37 - 16 = \dots\dots\dots$$

|   |   |
|---|---|
| c | g |
|   |   |
|   |   |
|   |   |

$$99 - 11 = \dots\dots\dots$$

|   |   |
|---|---|
| c | g |
|   |   |
|   |   |
|   |   |

# JANDE USTUGOL BADNGOL EGGINGOL

## Fibre hiisa

Mbowba SIH ina fawi almetaaji capande tati (30) gondi e gorosaaji tati (3) e dow taabal mum. Ummu Jah soodi heen almetaaji jeegom (6).

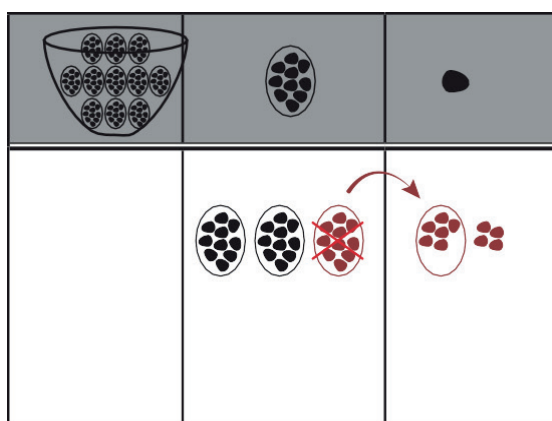
Hol no foti almetaaji Mbowba heddorii ?

## Pibtugol fibre ndee

| Feere                          | Njeñcudi  | Kiisorde                                                                                                                         |   |   |                   |           |   |   |
|--------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------|---|---|-------------------|-----------|---|---|
| Mbowba heddorii ko almetaaji : |           |                                                                                                                                  |   |   |                   |           |   |   |
| a30 – a6                       | a24       | <table><tr><td>c</td><td>g</td></tr><tr><td>2<br/><del>3</del></td><td>(1)0<br/>6</td></tr><tr><td>2</td><td>4</td></tr></table> | c | g | 2<br><del>3</del> | (1)0<br>6 | 2 | 4 |
| c                              | g         |                                                                                                                                  |   |   |                   |           |   |   |
| 2<br><del>3</del>              | (1)0<br>6 |                                                                                                                                  |   |   |                   |           |   |   |
| 2                              | 4         |                                                                                                                                  |   |   |                   |           |   |   |

Loowen  $30 - 6 = 24$  e kaatumeeje

H. ndaɗɗfudi



H. limande

| t | c                 | g      |
|---|-------------------|--------|
|   | 2<br><del>3</del> | 0<br>6 |
|   | 2                 | 4      |

+

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### **Tesko :**

Kala heen ko hurlaa, wadaa gallaadi burgal, ko ko ustaa.  
Ko wadaa gallaadi burgal tawa hurlaaka ko ko egginaa.

Kural laaṅal ngal hollirta ko hol to dūm fa'raa.

Njaltinen dūm e kaatumeeje de

$$\begin{array}{r} 2 \\ \times 3^{(1)}0 \\ \hline 6 \\ = 24 \end{array}$$

### **Tesko:**

Kaaleen so eden kiisoo:

1. Puḍḍoro-dēn go'owuujii dīi

- En mbaawaa ittude 6 e 0. Duum noon, en ngittat sappannde wootere e capande, puseen nde; nde wanta go'owuujii 10.
- Jooni noon, en ndañii go'owuujii 10. Ngitten heen 6, heddo 4
- Mbinnden 4 e les go'owuujii

2. Ndewnen heen capande de :

Heddinoo cappande dīdī (noogaas). Alaa ko ustetee e najje

- Ndeen noon, tellinen capande dīdī (noogaas) keddiide de, mbinnden de e les cappande. Ndeen noon :  $30 - 6 = 24$

### **Ekkorde :**

Ndarnee de kiisorde, kiiso-don.

$25 + 7 = \quad 34 + 18 = \quad 305 + 248 =$

$31 + 9 = \quad 232 + 64 = \quad 423 + 146 =$

$22 - 11 = \quad 65 - 33 = \quad 98 - 67 =$

$48 - 25 = \quad 78 + 46 = \quad 88 - 53 =$

## JANDE COWGOL NGOL ALAA YOWRE

### Fibre hiisa:

Jiba ko jahnoodo Ndakaaru. Nde o artata, o addani rewbe DIRFEL defte jannginooje no kosam feewnirtee.

Faatimata Birom hebi defte 2, Aadama hebi defte 2, Mbooya hebi defte 2, Kooce hebi 2.

No foti defte rewbe DIRFEL kebi ?

### Pibtugol fibre ndee

| Feere                                                                                                      | Njeñcudi             | Kiisorde                                                                                                                                               |   |   |  |   |  |   |  |   |
|------------------------------------------------------------------------------------------------------------|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|--|---|--|---|--|---|
| Rewbe DIRFEL kebi e defte ko:<br><br>d2 – d2 + d2 + d2<br><b>walla</b><br>d2 x 4<br>(yele didiiji laabi 4) | <br><br>d8<br><br>d8 | <br><br>x<br><br>=<br><table><tr><td>c</td><td>g</td></tr><tr><td></td><td>2</td></tr><tr><td></td><td>4</td></tr><tr><td></td><td>8</td></tr></table> | c | g |  | 2 |  | 4 |  | 8 |
| c                                                                                                          | g                    |                                                                                                                                                        |   |   |  |   |  |   |  |   |
|                                                                                                            | 2                    |                                                                                                                                                        |   |   |  |   |  |   |  |   |
|                                                                                                            | 4                    |                                                                                                                                                        |   |   |  |   |  |   |  |   |
|                                                                                                            | 8                    |                                                                                                                                                        |   |   |  |   |  |   |  |   |

## REWTO

Ndarnee kiisorde dee doo limande

$43 + 11 =$

$37 + 42 =$

$55 - 33 =$

$25 + 64 =$

$77 - 44 =$

$58 - 34 =$

Kiiso-dee dee doo limande

$32 + 12 =$

$47 + 52 =$

$89 - 33 =$

$65 + 24 =$

$67 - 24 =$

$78 - 54 =$

## JANDE PECCUGOL NGOL ALAA YOWRE

### Fibre hiisa:

Demmba Bah ina addunoo na'i 6, o feccii di biibbe mum tato (3) Hol no foti gooto heen kala dañi ?

### Pibtugol fibre ndee

| Feere                                                              | Njeñcudi               | Kiisorde                                                                             |
|--------------------------------------------------------------------|------------------------|--------------------------------------------------------------------------------------|
| <p>Gooto heen kala foti dañde ko :</p> <p><math>6 : 3 =</math></p> | <p><math>n2</math></p> | $\begin{array}{r} \text{x2} \\ 3 \overline{) 6} \\ \underline{- 6} \\ 0 \end{array}$ |

$$8 : 4 = \quad 6 : 3 = \quad 2 : 2 =$$

$$9 : 3 = \quad 4 : 2 = \quad 6 : 2 =$$

## Ekkorde

### Ekkorde 1 :

Ndarnee dee kiisorde, kiiso-don

$$8 : 4 = \quad 6 : 3 = \quad 2 : 2 =$$

$$9 : 3 = \quad 4 : 2 = \quad 6 : 2 =$$

### Ekkorde 2 :

EVEAC Baljel, Tokooba e Woyndu peccii tonuuji 12 rippaas ko ñammini jawdi mumen.

No foti heen EVEAC kala dañi ?

Pibtee fibre ndee

| Feere | Njeñcudi | Kiisorde |
|-------|----------|----------|
|       |          |          |

## JANDE LIMANDE 1000

### Cilen

So efen lima, hol ko rewi e teemedde jeenayi e capande jeenayi e jeenayi ?

$$999 + 1 = 1.000$$

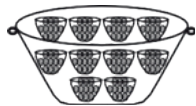
### Taren :

1.000 (Ujunere)

### Mbinnden :

1.000

### Loowen e kaatumeeje

|                                                                                     |                                                                                     |                                                                                     |  |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--|
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|  |                                                                                     |                                                                                     |  |

↔

| g.u | t | c | g |
|-----|---|---|---|
| 1   | 0 | 0 | 0 |

# Ekkorde

## Ekkorde 1 :

Kiisodee dee doo limande

$$800 + 200 = \dots\dots\dots$$

$$971 + 29 = \dots\dots\dots$$

$$760 + 240 = \dots\dots\dots$$

$$993 + 7 = \dots\dots\dots$$

## Ekkorde 2 :

Beydondiree dee limande mbindon e alluwal

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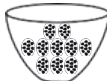
# JANDE UJUNNAAJE

Limande 1001 haa 9999

**Taren**

e nder haatumeere ndadɗudi

e nder haatumeere Limande

|                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                     | g.u | t | c | g |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----|---|---|---|
|                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                     | 1   | 0 | 0 | 0 |
|                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  | 1   | 0 | 0 | 1 |
|                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  | 1   | 1 | 1 | 1 |
|                                                                                      |   <br>  <br>   |   <br>  <br>   |  | 1   | 9 | 9 | 9 |
|   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   <br>                                                                                                                                                                                                                                                                  |  | 2   | 3 | 6 | 7 |

## Ekkorde

### Ekkorde 1 :

Mbafee ndee haatumeere ndadɗudi e haatumeere Limande sawndiinde nde

|  |  |  |  |     |   |   |   |
|--|--|--|--|-----|---|---|---|
|  |  |  |  | g.u | t | c | g |
|  |  |  |  |     |   |   |   |
|  |  |  |  |     |   |   |   |
|  |  |  |  |     |   |   |   |
|  |  |  |  |     |   |   |   |
|  |  |  |  |     |   |   |   |

### Ekkorde 2 :

Ndarnee haatumeere limande loowon heen ko winndaa ɗoo ko

Ujjunnaje tati e teemedde jeegom e nayi = .....

Ujunnaaje joyi e teemedde joji e capande joyi e joyi = .....

Ujunnaaje jeetati e sappo e jeedidi = .....

## JANDE COWGOL BADNGOL YOWRE

### Fibre hiisa:

Demmba Mbow jogii ko nammbuuji 3 ñebbe. Nammbu heen kala soñii e ndunngu hee fotde saakuuji 16.

Hol no foti saakuuji Demmba Mbow dañi hikka ?

### Pibtugol fibre ndee:

| Feere                                 | Njeñcudi | Kiisorde                                                                                                                          |   |   |                     |        |   |   |
|---------------------------------------|----------|-----------------------------------------------------------------------------------------------------------------------------------|---|---|---------------------|--------|---|---|
| Demmba Mbow dañi ko:<br><br>s16 x 3 = | s8       | x <table><tr><td>c</td><td>g</td></tr><tr><td><sup>(1)</sup><br/>1</td><td>6<br/>3</td></tr><tr><td>4</td><td>8</td></tr></table> | c | g | <sup>(1)</sup><br>1 | 6<br>3 | 4 | 8 |
| c                                     | g        |                                                                                                                                   |   |   |                     |        |   |   |
| <sup>(1)</sup><br>1                   | 6<br>3   |                                                                                                                                   |   |   |                     |        |   |   |
| 4                                     | 8        |                                                                                                                                   |   |   |                     |        |   |   |

## Ekkorde

**Ekkorde** : kiiso-dén

$37 \times 4 =$

$268 \times 3 =$

$169 \times 2 =$

$65 \times 2 =$

## JANDE PECCUGOL BADNGOL YOWRE E EGGINGOL

### Fibre hiisa:

Faatimata Jah yidiino fecondirde sukaaɓe mum nayo jawe 16.  
So o fecondirii ɓe jawe ɗe, hol no foti gooto kala dañata ?

### Pibɗugol fibre ndee

| Feere                                                          | Njeñcudi              | Kiisorɗe                                                                                                   |
|----------------------------------------------------------------|-----------------------|------------------------------------------------------------------------------------------------------------|
| <p>Gooto kala foti dañde ko :</p> <p><math>16 : 4 =</math></p> | <p><math>4</math></p> | $\begin{array}{r} \times 4 \\ 4 \overline{) 16} \\ \underline{-} \\ 16 \\ \underline{-} \\ 00 \end{array}$ |

## Ekkorde

### Ekkorde 1 :

Ndarnee dee kiisorde, kiiso-don

$18 : 3 =$

$64 : 2 =$

$47 : 4 =$

$25 : 5 =$

$34 : 8 =$

## REWTO

Kiiso-dēn dēe dōo kiisorde

a)

$4 \times 2 = \quad 6 \times 2 = \quad 6 \times 4 =$

$7 \times 1 = \quad 8 \times 4 = \quad 7 \times 3 =$

$3 \times 3 = \quad 5 \times 3 = \quad 3 \times 6 =$

b)

$88 : 2 = \quad 366 : 3 = \quad 777 : 2 =$

$97 : 7 = \quad 288 : 2 = \quad 465 : 4 =$

$47 : 4 = \quad 665 : 5 = \quad 555 : 3 =$

# NJU'BUDI KAALIS

*mb.* = *mbuudu*

mb.1 =

5F



b.2 =

10F



b.5 =

25F



b.10 =

50F



b.20 =

100F



b.50 =

250F



b.100 =

500F



b.1.000 =

5.000F



b.2.000 =

10.000 F





25F

b.5



50F

b.10



100F

b.20



250F

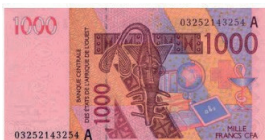
b.50

**Ekkorde :** kiiso-den, timmitinen e kiisorde men baylugol kaalis



500F

b. ....



1.000F

b. ....



5.000F

b. ....



10.000F

b. ....

## Ekkorde

**Jaŋde cowgol limande : 10, 100, 1000, ekn**

Kiiso-den dee doo kiisorde ;

$$25 \times 1 = \qquad 25 \times 1000 =$$

$$25 \times 10 = \qquad 25 \times 10000 =$$

$$25 \times 100 = \qquad 25 \times 100\,000 =$$

Binnden, taren :

$$- 4580 \text{ b.} \times 5 = 22.900 \text{ F}$$

$$- 251.550 \text{ F} : 5 = 50.310 \text{ b.}$$

$$16.235 \text{ b.} \quad 45.750 \text{ b.} \quad 84.328 \text{ b.} \quad 91.670 \text{ b.}$$

# HUUNDE E ALLUJE KUUTORDE COWGOL

## ALLUWAL COWGOL

| 0                 | 1                  | 2                  | 3                  |
|-------------------|--------------------|--------------------|--------------------|
| $0 \times 0 = 0$  | $1 \times 0 = 0$   | $2 \times 0 = 0$   | $3 \times 0 = 0$   |
| $0 \times 1 = 0$  | $1 \times 1 = 1$   | $2 \times 1 = 2$   | $3 \times 1 = 3$   |
| $0 \times 2 = 0$  | $1 \times 2 = 2$   | $2 \times 2 = 4$   | $3 \times 2 = 6$   |
| $0 \times 3 = 0$  | $1 \times 3 = 3$   | $2 \times 3 = 6$   | $3 \times 3 = 9$   |
| $0 \times 4 = 0$  | $1 \times 4 = 4$   | $2 \times 4 = 8$   | $3 \times 4 = 12$  |
| $0 \times 5 = 0$  | $1 \times 5 = 5$   | $2 \times 5 = 10$  | $3 \times 5 = 15$  |
| $0 \times 6 = 0$  | $1 \times 6 = 6$   | $2 \times 6 = 12$  | $3 \times 6 = 18$  |
| $0 \times 7 = 0$  | $1 \times 7 = 7$   | $2 \times 7 = 14$  | $3 \times 7 = 21$  |
| $0 \times 8 = 0$  | $1 \times 8 = 8$   | $2 \times 8 = 16$  | $3 \times 8 = 24$  |
| $0 \times 9 = 0$  | $1 \times 9 = 9$   | $2 \times 9 = 18$  | $3 \times 9 = 27$  |
| $0 \times 10 = 0$ | $1 \times 10 = 10$ | $2 \times 10 = 20$ | $3 \times 10 = 30$ |

## HAATUMEERE COWANDE TUGGI 1 HAA E 9

|   |    |    |    |    |    |    |    |    |
|---|----|----|----|----|----|----|----|----|
| 1 | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  |
| 2 | 4  | 6  | 8  | 10 | 12 | 14 | 16 | 18 |
| 3 | 6  | 9  | 12 | 15 | 18 | 21 | 24 | 27 |
| 4 | 8  | 12 | 16 | 20 | 24 | 28 | 32 | 36 |
| 5 | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 |
| 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 |
| 7 | 14 | 21 | 28 | 35 | 42 | 49 | 56 | 63 |
| 8 | 16 | 24 | 32 | 40 | 48 | 56 | 64 | 72 |
| 9 | 18 | 27 | 36 | 45 | 54 | 63 | 72 | 81 |

## HAATUMEERE PITAAGOOR

|    |    |    |    |    |    |    |    |    |     |
|----|----|----|----|----|----|----|----|----|-----|
| 1  | 2  | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10  |
| 2  | 4  | 6  | 8  | 10 | 12 | 14 | 16 | 18 | 20  |
| 3  | 6  | 9  | 12 | 15 | 18 | 21 | 24 | 27 | 30  |
| 4  | 8  | 12 | 16 | 20 | 24 | 28 | 32 | 36 | 40  |
| 5  | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 50  |
| 6  | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60  |
| 7  | 14 | 21 | 28 | 35 | 42 | 49 | 56 | 63 | 70  |
| 8  | 16 | 24 | 32 | 40 | 48 | 56 | 64 | 72 | 80  |
| 9  | 18 | 27 | 36 | 45 | 54 | 63 | 72 | 81 | 90  |
| 10 | 20 | 30 | 40 | 50 | 60 | 70 | 80 | 90 | 100 |

## REWTO HUU'BTIDINNGO

### **Ekkorde 1 :** Beydugol

$$128 + 11 =$$

$$234 + 423 =$$

$$102 + 327 =$$

$$345 + 6 =$$

### **Ekkorde 2 :** Ustugol

$$678 - 326 =$$

$$869 - 425 =$$

$$558 - 133 =$$

$$789 - 547 =$$

### **Ekkorde 3 :** Cowgol

$$2 \times 0 =$$

$$3 \times 3 =$$

$$2 \times 4 =$$

$$5 \times 1 =$$

### **Ekkorde 4 :** Peccugol

$$6 : 3 =$$

$$4 : 2 =$$

$$8 : 4 =$$

$$9 : 3 =$$