

Sample Design - Rural

Total Population: The total population of this survey consists of 84 rural districts of Pakistan.

Sampling Frame: Each district is provided with

- A village list.
- . Data from the last Population Census 1998 on the total number of households
- Total population of each village in the list.

Sample size and its Allocation:

- Keeping in view the variability of the key variables, population distribution and field resources, a total sample of 600 households pertaining to 20 households from each village is being used.
- Sample primary sampling units (PSUs) have been considered sufficient to produce reliable estimates with 5% margin of errors at 95% level of confidence.
- The detailed allocation plan is shown below:

Number of Districts	Number of Villages per District	Number of Households per Village
84	30	20

Sample Design: A two stage sample design was adopted:

- · First stage: 30 villages selected using the village directory of the 1998 census.
- · Second stage: 20 households are selected in each of the 30 selected

Selection of Primary Sampling Units (PSUs): Villages of districts have been taken as PSUs:

- Sample PSUs have been selected using probability proportional to size (PPS) method.
- Every year, 20 villages from the previous year are retained and 10 new villages are added. Ten villages are dropped from the previous year's list and 10 new villages are added from the population census village directory. The 10 new villages are also chosen using PPS.
- The 20 old villages and the 10 new villages give us a" rotating panel" of villages, which generates better estimates
 of changes.

Selection of Secondary Sampling Units (SSUs): Households have been treated as secondary sampling units (SSUs).

- Based on actual households in each sample PSUs, 20 households have been selected.
- . We divide the village into four parts:
 - In each of the four parts, started from the central location and pick every 5th household in a circular fashion till 5 households are selected from each part.

SURVEY METHODOLOGY

HOW TO MAKE A MAP AND SECTIONS

Contact Village Elder: Introduce yourself to the Village Elder, Councilor or to other senior members of the Panchayat to
give them a sense of the visit's objective. As you walk around in the village talk to different people and ask about the village.
 Tell them about ASER. This initial walking and talking may take more than an hour.

Mapping:

- o <u>Talk to people</u>: How many different hamlets/sections are in the village? Where they are located? What is the social composition of the households in each hamlet/section? What is the estimate of households in each hamlet/section? Tell them about ASFR
- Rough map: It is often helpful to first draw all the roads or paths coming into the village and going out of the village. Use
 the help of local people to show the main landmarks mosques, river, road, school, bus-stop, baithak, shop etc. Mark the
 main roads/streets/paths through the village prominently on the map. Marking the directions north, south, east, and
 west will be helpful.
- <u>o Final map</u>: Once everyone agrees that this map is a good representation of the village, and it matches with your experience of having walked around the whole village, then copy it on the map sheet provided.

Marking and numbering sections on the map: Use the map sheet provided and fill out all the information provided.

If the village has hamlets:

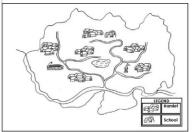
- Mark the hamlets on the map and indicate the approximate number of households in each hamlet.
- If the village consists of more than 4 different hamlets, then make chits with numbers for each hamlet. Randomly pick 4 chits. On the map, indicate which hamlets were randomly
- map, indicate which hamlets were randomly picked for surveying.

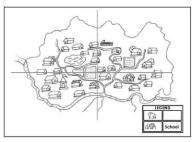
 O Do not worry if there are more people in one
- If there are 4 or less hamlets, then we will go to all of these hamlets.

If it is a village with continuous habitation:

hamlet than in the other.

- Divide the entire village in 4 sections
- For each section, note the estimated number of households.

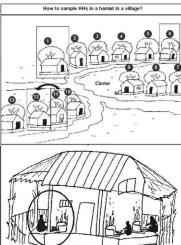




HOW TO SAMPLE HOUSEHOLDS

- In the entire village, information will be collected for 20 randomly selected households.
- Go to each hamlet/section. Try to find the central point in that hamlet/section. Stand facing the houses in the center of the habitation.
- Conduct the survey with every 5th household rule, from the left-hand side in the habitation (e.g. 5th house, 10th house, 15th house, etc). While selecting households, count only those households that someone lives in. In every selected household:
 - Multiple_kitchens: Ask how many kitchens or khulhas' there are? If there is more than one kitchen, then randomly select any one of the kitchens in the household. After surveying this household, select the next 5° household (door or entrance to the house). Ask for all the children in each household within the age group 3 to 16 Who eat from the same chulha
 - House closed: If the selected household is closed or if there is nobody at home, note that down on your compilation sheet as "house closed". This household DOES NOT count as a surveyed household as one of the 20 households for the survey. DO NOT include this household in the survey sheet.
 - No response: If a household refuses to participate, note that down on your compilation sheetas "No response". However, as above, this household DOES NOT count as a surveyed household. Move on to the next house. Continue until you have 5 households in each hamlet/section in which not only were the inhabitants present, but they also participated in the survey.

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In the 5th HH ask how many 'chulhas' are there? If there are more than 1, then randomly select any one of the 'chulhas'. After completing survey in this house proceed to the next 5th HH.

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- No children: If there are no children or no children in the age group 3–16 in a household but there are inhabitants, INCLUDE THAT HOUSEHOLD. Take all the relevant information like the household number, name of the family head, age and education related information of the mothers, if any. Such a household WILL COUNT as one of the 5 surveyed households in each hamlet/section.
- Stop after you have completed 5 households in each hamlet/section. If you have reached the end of the section before 5
 households are sampled, go around again using the same every 5" household on the left-hand side rule. If a surveyed
 household gets selected again, then go to the next household. Continue the survey till you have 5 households in the section.
- Now move to the next selected hamlet/guadrant. Follow the same process.
- Make sure that you go to households <u>ONLY</u> when children are likely to be at home. This means that it should be a <u>Saturday/Sunday or a holiday</u>.

WHAT TO DO IN EACH HOUSEHOLD

Basics of the household sheet: Following are few basic information required to be filled in the household sheet before the start of the survey.

- Household ID: Write the household number (e.g. 1, 2, 3,......20)
- Name of Family: write down the name of Family head.
- Total household members: Write down the number of male and female members eating from the same kitchen. This
 should include children also.
- . Date and Time: Write down the date, day, start & end time on the day of the survey visit.
- Surveyors: Write down the names of the Surveyors.
- Village identification: Carefully fill out the relevant name of the village, tehsil/taluka, district and province.

In Each Sampled Household: We will note information about the household and all the children (3-16 years), their mother and father who live in the household on a regular basis.

Household with multiple kitchens: If there is more than one kitchen (chulhas) in the selected household, then randomly select any one of the kitchens in the household and record the total number of family members who eat from that chosen kitchen.

- Children 3 to 5: On the Household sheet, note down child's name, age, whether they are attending Kachi or any other form
 of pre-school centre. We will NOT test children who are under 5 years of age.
 - Ask all children in this age group their current schooling status, meaning whether the child is currently enrolled in kachi
 or any other school, dropped out of school or was never enrolled in any school.
 - Ask each enrolled child whether they had to miss school for 4 or more continuous days in the past schooling month.
 - Ask all (enrolled and dropped out) children if they take any private supplementary tuition (paid classes in addition to regular school).
 - o Also ask the enrolled children if they go to the specific school which you have/will be surveying
- <u>Children 5 to 16</u>: On the Household sheet, note down child's name, age, gender and all other details.
 - Ask the current schooling status of each child, i.e. whether the child is currently enrolled in school, dropped out of school or was never enrolled in any school.
 - If the child is enrolled then note down the class which the child is attending at the time of the survey and the type of school each child is going to, i.e. government, private, madrassah or any other type of school.
 - o Ask each enrolled child whether they had to miss school for 4 or more continuous days in the past schooling month.
 - Ask all (enrolled and dropped out) children if they ever went to any form of pre-school centre.
 - Ask all (enrolled and dropped out) children if they take any private supplementary tuition (paid classes in addition to regular school).
 - Also ask the enrolled children if they go to the specific school which you have/will be surveying.

 All children in this age group (5 to 16) will be tested in basic reading, arithmetic and English. (We know that younger children will not be able to read much or do sums but still follow the same process for all children so as to keep the process uniform). Ensure that the child is comfortable before and during the test and that sufficient time is given to each child.

Fathers: Note down the information about the father for each child in the age of 3 to 16. The information includes the fathers' age, whether he has attended school or not and up to what class has he studied. Fathers will not be tested.

- If the father is not present during the time of survey, note down all the available information
- Do not take information if the father is dead.

Mothers: Note down the name of the mother for each child, her age, whether she has attended school or not, her highest class completed, and whether she has attended any literacy program or not. Mothers will be tested. The tested material used for this purpose is the simple paragraph from the testing tool. Note down whether she was able to read or not.

- It would be best to have at least one female member in the survey team or be accompanied by a local woman to get the information.
- Mother's Code: Write down the Mother code. It is simply a number (1-10) that you give to each mother so you can
 differentiate between two persons of same name and their respective children. (same code as appears in the Mothers
 code column in the mother information section)
- Mothers' Test: The mothers will ONLY be asked to read the sentences, and mark accordingly. Either of the following
 have to be selection:
 - Whether she can read language sentences
 - Cannot read language sentences
 - Not available for test
 - Available but not tested (this option is valid when the mother is present in the household but she refuses to be tested)

Out of school children (drop outs and never enrolled children)

- Ask for the last class that the dropped out child passed and the year in which he/she dropped out of school.
- Even the dropped out and never enrolled children aged 5 to 16 have to be tested.

OTHER THINGS TO REMEMBER:

- Non-resident children: Do not survey children who are visiting their relatives and friends in the sampled village.
- Older children: Often older girls and boys (in the age group 11 to 16) may not be thought of as children. Be sensitive to
 this issue and therefore avoid using words like "children".
- Children out of the village: If there are children in the family but who are not present in the village during the survey, do
 not take their details.
- Mothers under or of 16yrs of age: Often in villages, you can come across mothers who are less than 16 years of age.
 Information on them will be collected as a mother as well as a child between the age 5 to 16 years, and they will also be tested in all three assessments.

Many children may come up to you and want to be included in the process out of curiosity. Do not discourage these children. You can interact with them. But concentrate on the fact that data must be noted down <u>ONLY</u> for children from households that have been randomly selected. Household Indicators: All information on household indicators is to be recorded based, as much as possible, on observation and evidence. However, if for some reason you cannot observe it note down what is reported by the household. This information is being collected in order to link education status of the child with household economic conditions.

- · Type of house the child lives in: Types of houses are defined as follows:
 - Pucca House: A pucca house is one, which has walls and roof made of the following material.
 - Wall material: Burnt bricks, stones (packed with lime or cement), cement concrete, timber etc.
 - Roof Material: Tiles, GCI (Galvanised Corrugated Iron) sheets, asbestos cement sheet, RBC (Reinforced Brick Concrete), RCC (Reinforced Cement Concrete) and timber etc
 - <u>Kutcha House:</u> The walls and/or roof of which are made of material other than those mentioned above, such as unburnt bricks, bamboos, mud, grass, reeds, thatch, loosely packed stones, etc.
 - Semi-Pucca house: A house that has fixed walls made up of pucca material but roof is made up of the material other than those used for pucca house.

· Electricity in the household:

- o Mark yes or no by observing if the household has wires/electric meters and fittings or not.
- Mark yes even if electricity is off because of load shedding. (The purpose of this is to find out whether the household had the facility of electricity available to them or not)
- . Toilets: Mark yes or no by observing if there is a constructed toilet in the house.
- . Mobile phone: Write down the number of mobile phones are there in the household used by family members.
- Vehicles: For each of the given types of vehicles write the number in the appropriate box. The category 'other' includes any
 vehicle other than the ones mentioned, such as rickshaw, gingl, horse cart, donkey cart etc.

HOW TO TEST READING?

Sentences



Present the paragraph in the tools to the child. Ask her to read it and listen carefully as to how she reads.

She may read slowly, haltingly or even make 3 to 4 mistakes in reading the sentences correctly.

However, as long as the child reads the text like a sentence and not like a string of words, mark her on the 'sentence' level in the household sheet.



If the child stops very often while reading the sentence or has difficulty with more than 3 to 4 words in the sentence or reads it as a string of words than show her the list of words.







Words

Ask the child to read any 5 words from the word list. Let the child choose the words herself. If she does not choose, then point out words to her.

If she can correctly read at least 4 out of 5 words with ease, then ask her to try to read the sentences again.

If she can correctly and comfortably read words but is still struggling with the sentences, then mark her at the 'words' level.

If she cannot correctly read at least 4 out of 5 words she chooses, then show her the list of letters.

Story

Show the child the story. If she can read fluently and with ease, then mark her as a child who can read a story.

then ask her to read the story. This is the level 2 text.

If she is unable to read the story fluently and stops a lot, mark her as a child who is at the sentence level.



Letters

Ask the child to read any 5 letters from the list. Let her choos e the letters herself. If she does not choose then point out letters to her.

If she can correctly recognize at least 4 out of 5 letters with ease, then show her the list of words again.

If she can read 4 out of 5 letters but cannot read words, then mark h er as a child who 'can read letters'

If she cannot read 4 out of 5 letters correctly, then mark her as a child as a 'beginner'.

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HOW TO TEST ARITHMETIC?

Subtraction

Start Here

Show the child the subtraction problems. She can choose, if not you can point.

Ask her to write and solve the problems. Observe to see if she does it in the correct written numerical form.

Ask her to do a second one.



If she cannot do both subtraction problems, then give her the number recognition (11-100) task.

If she does both the subtraction problems correctly, ask her to do a division problem.



Number Recognition (11-100)

Point one by one to at least 5 numbers. Child can also choose.

Ask her to identify the numbers.

If she can correctly identify at least 4 out of 5 numbers then mark her as a child who can 'recognize numbers from 11-100'

If she cannot recognize 4 out of 5 numbers from 11-100, then give her the number recognition 1-9 task.

Division (3 digit by 1 digit)

Show the child the division problems. She can choose one out of the rest.

Ask her to write and solve the problem.

Observe and see if she is able to correctly solve the problem, then mark her as a child who can do 'division'.

If she is unable to solve a division problem correctly, mark her as a child who can do 'subtraction'.



Number Recognition (1-9)

Point one by one to at least 5 numbers. Child can also choose.

Ask her to identify numbers.

If she can correctly identify at least 4 out of 5 numbers then mark her as a child who can 'recognize numbers from 1-9'

If not then mark her at the level 'nothing'.

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HOW TO TEST ENGLISH?



Capital Letters

Point one by one to at least 5 letters. Ask her to identify the letters.



the list of small letters. If she reads capital letters but is

struggling with identifying small letters, then mark her as

If she is unable to recognize 4 out of 5 capital letters from the list, then mark her under the category 'nothing'.



Small Letters

Point one by one to at least 5 letters. Ask her to identify the letters.

If she can recognize 4 out of 5 small letters with ease, then show her the list of words.

If she reads small letters but is struggling with words, then mark her as a child who can read 'small letters'



Words

Point one by one to at least 5 words. Ask her to identify numbers.

If she correctly reads 4 out of 5 words, then show her the list of sentences.

If she reads words but is struggling with reading sentences, then mark her as 'word' level child.



Sentences

Ask her to read the 4 sentences. If she reads at least 2 out of the 4 fluently, then mark her at the 'sentence level'.

Meaning of Words and Sentences in Local Language

Word Meanings: If a child is able to read words, ask her their meaning in her own language. Meaning can be literal or even a closely associated word. If she correctly says the meaning of the 4 words, mark her as a child who 'can say meanings', otherwise mark her as a child who 'cannot say meanings'.

Sentence Meanings: If a child is able to read sentences, ask her the meaning of the underlined sentences in her own language. If she correctly says the meaning of at least 2 sentences, mark her as a child who 'can say meanings', otherwise mark her as a child who 'cannot say meanings'

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WHAT TO DO IN A SCHOOL?

- Visit any government school in the village with classes from Class 1 to 10. If there is no such school in the
 village which has classes from 1 to 10, then visit an elementary/middle school. In case that is not available
 either, visit a primary school.
- In case there is no government school in the target village, visit a government school closest to the target village.
- Note the time of entry, date, day and time of exit from the school.
- Meet the Head Master (if the Head Master/Mistress (HM) is absent, then meet the senior most teacher of the school). The purpose and history of ASER need to be explained here.
- The following information has to be collected from the head teacher:
 - Which classes the school has.
 - Type of school, meaning only boys, only girls or boys & girls.
 - o FMIS Code
 - School's year of establishment
 - Distance from school to bus stop.
 - Distance from village to district head quarter.
 - School affiliation with any NGO or Foundation

Children's Enrollment & Attendance

- Ask for the registers of all the classes and fill in the enrollment and today's attendance. If there are more
 than one sections for same class, randomly choose any one section.
- Move around to the classes/areas where children are seated and take down their attendance class-wise by
 counting them YOURSELF. You may need to seek help from the teachers to distinguish children class-wise as
 they are normally found seated in mixed groups. In such a case, ask children from each standard to raise
 their hands. Please note that you should only COUNT those children who are physically present in the class.

Teachers

- Request the Head Teacher to provide you information on teachers in the school. Note down the information on:
 - o Number of Sanctioned Teaching Posts
 - Teachers appointed
 - Number of Teachers present on the day of the survey
 - Number of Teachers on official leave
 - Number of Teachers on any other non official leave, and
 - Number of Teachers living in this village, if applicable.

Class Room Observations

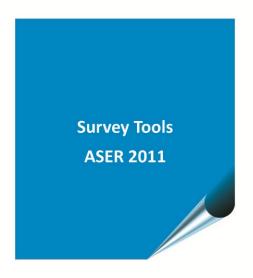
- This section is to be filled for class 2 and class 8(where applicable). If there is more than one section for a class, then randomly choose any one.
- OBSERVE the seating arrangement of children (mixed groups or class wise)
- OBSERVE where the Class is sitting (room, verandah, outdoor).
- . OBSERVE the condition of the blackboards in the class, if available.
- OBSERVE if majority of the children have their textbooks or not.
- OBSERVE if there is any other (except textbooks) supplementary teaching material available in the classroom like charts, books or board games.

School Fund Information

- For this section, note down information for financial year 2010 and 2011.
- The head teacher should be asked this section. In the absence of the head teacher, any other present teacher can be asked the questions.
- Ask the person answering this section about the Fund in a way that the person does not feel threatened or uncomfortable. If the person refuses to answer then do not force the person and leave the section blank.
- Ask if the school got a Fund. If yes, note down the amount and date of receipt of the fund. If the person
 answering this section says that he/she is going to receive the Fund in the future, then mark "no".
 - Write down the name of the source of fund (Govt. Private, NGO etc.)
- Ask where the fund amount was used amongst the following categories:
 - Compound/Premises
 - School Building
 - New Room
 - Water/Toilet facilities
 - o Furniture
 - Inside Class room
 - o Other

Facilities in the School

- OBSERVE and write down:
 - o Total Numbers of rooms in The School.
 - Number of rooms used for Classes
- · OBSERVE if the school had safe drinking water facility for the children.
- · OBSERVE if the school has a boundary wall/fence & playground or not.
- OBSERVE whether the school has functional toilet facility for children
- OBSERVE if the school had any library books?



Household Survey Sheet NOT DE LA PARTIE D Buchelei How many of the Following does your Household have? (Write Number) Car Cycle 1 AZ Basic Learning Level (for 5-16 age group) Tensitation Now Kong Yes No 2 2 2 HOUSEHOLD SURVEY SHEET Type of House 12 Kutcha with Month Not evaluable for test Start Time End Time 1105-01-60 ASER-PAKISTAN 2011 1 II) Mothers Education Level 3 00 Date of Survey Tick (✓)what Children of each mother Mari 300 8 Bib. 2 Nasygan 6 Nostin Broi

Government School Observation Sheet

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Did most of the children (75%) have reading textbooks? (Ask the	ve reading t	textbool	ks? (Ask	k the		7		7			Does the school have any library books?	I have an	library books	2		1	H
Anart from text hooks ally want see one other supplementary material	a anic other	erinalos	- Contract	indami.	-			1	+		Could you see the library books?	the library	DOOKS?			4	1
(e.g. Books, Charts on the wall, Board Games etc.) available in the room?	rd Games el	to.) avail	able in the	he room	2	1		1	_		Is there a Science Laboratory?	n Laborato	IE SCHOOL			1)	1

Private School Observation Sheet

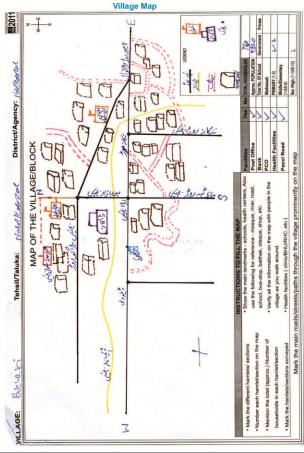
Pakistan ASER SHEET OBSERVATION PRIVATE SCHOOL

No School FUND Information (Ask Headmaster this section, If absent, Yes No Instructions Vital any private school, first preference to High School than Middle and then Primary, Meet Head Master (In absence of the HM, meet the senior most leacher of the school, Documents required: Enrolment Attendance register. Arrival Time 10:00 AM 0 Departure Time 10:40 Name of Surveyors (2) NGLIG Yes Province Pungab (VI) Facilities in the school (From Observation) fotal number of rooms in the school being currently used by is there a drinking water facility for the children in the school? If drinking facility available, was it useable? 9 1 otal number of rooms in the school (count yourself) 700 Who answered this section?(~Tick relevant) Did you get any FUNDS from Government? Date of visit 10-10-2-011 If yes, what was the amount of this FUND? In which month was this FUND received? Does the school have any library books?
Could you see the library books?
Is there a playground in the school?
Is there a Science Laboratory is there complete boundary wall/fence? is there a tollet / latrine for the <u>children?</u> If there is a tollet/latrine, is it useable? Other District/Agency Jankana Monday Name of Surveyors (1) Suched Amagay Name of Department/Organization the children (count yourself) Teacher Since (Year) Since (Year) fick where relevant Day of visit Head Master (III) 1995 Number sections on Number sections for any other of teachers of non official reasons residents of non official reasons TRIS VIIIagg tote. Take a headcount of chitisren in the room. If merged groups, ask the children of each class to raise their hands separately and then count accordingly. Tehnil/Taluka Nawkang Class 9 Class 10 S School Established Year 0 50) Other 1 Class 8 500 Type of School | English Medium | Urdu Medium | Hafiz Quran + General schooling | Total Enrolment Boys: 000 Class 7 22 S Girls Only Jass. Class 6 on official 400 Type of School (Tick any one) 28 2 8 50) 1 Name of School Little Angels Ribbic Elementry Scholvillage Buchelci Boys & Girls Boys Only School School Class 5 38 34 foday(On the day of Number Present Are the children of this class sitting with children from any other class? If yes, then with which class? (write) No If "Yes" mention name: No ☑ If "Yes" mention name: 9 Apart from text books, did you see any other supplementary material (e.g. Books, Charts on the wall, Board Games etc.) svaliable in the room? survey) Class 4 350 22 Could you easily write on the blackboard/white board?

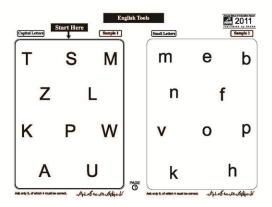
Did most of the children (75%) have reading textbooks? (Ask the children to show you their language textbooks and assess accordingly) 9 Class 3 300 7 Class 2 300 Appointed Number Total Enrolment Girls: is there a blackboard/white board for this class? Others Class 1 23 2.3 From which Class to which Class. (Tick any one) V Yes Any Foundation affiliated with School Yes Numeral LKG/ C 34 ES 300 ts Where were they seated (tick one) Class 6 to 8 Any other person(s) teaching in the school V) Class Room Observations (C Any NGO affiliated with School Community/Part Time Teachers (I) Children's Enrollment & Children's attendance Today Children's enrollment (Take from register yourself) (II) Teachers Class 1 to 10 Head Teacher Regular Teachers (Doesn't Children's attendance Today's as per register) School Fee (Per Month) nclude Head Teach S S Class 1 to 5

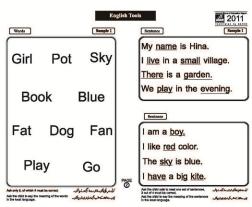
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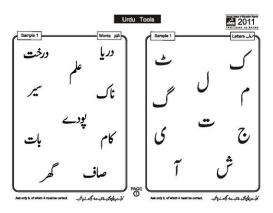
English Tools

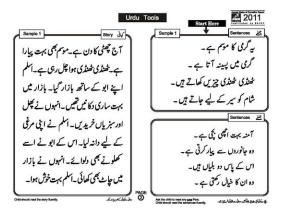




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Urdu Tools





Math Tools

Sample 1	
Number Recognition 1-9	Number Recognition 11-99
4 8	37 44
2 5	25 88
9 7	61 72
ن ت	49 16
1 6	57 93
Ask any 5, of which 4 must be correct.	Ask any 5, of which 4 must be correct.

Math Tools

Subtra	ction	Division
35 - <u>17</u>	52 - <u>33</u>	4 / 232 \
53 - <u>25</u>	43 - <u>24</u>	7 / 378
97 - <u>69</u>	78 - <u>29</u>	6 / 264 \
74 - <u>37</u>	36 - <u>18</u>	8 784

Number Recognition 1-9	Number Recognition 11 to 99
2 5	91 39
1 9	13 77
7 4	26 81
	35 54
3 6	42 68
hade any 5, of which 4 must be correct.	Ask any 5, of which 4 must be correct. ・ がっとったもという

Subtraction	Division
85 92 -38 - <u>75</u>	4 / 152 \
34 88 -17 -49	6 / 456 \
63 85 • 26 - 37	7 / 392 \
57 84 - 39 - 68	8 / 664

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Sindhi Tools

