



## APPENDIX D

# THE LANGREHR TEST OF EARLY CHILDHOOD THINKING

The Langrehr Test of Early Childhood Thinking (LTECT) tests the ability of children age 5 to 8 to think for themselves. It is not a test of simple memory.

The first 4 items of the test assess different thinking processes or skills associated with creative thinking. The items assess creative flexibility. The last 4 items assess different thinking processes or skills associated with critical or judgmental thinking.

## **PRESENTING THE TEST**

This is an **oral test** and is to be given to only one child at a time.

Carefully read the question at the top of each sheet to the child. If he/she is not sure of what the question means then clarify it in your words. Clarify, **but do not give hints or other examples** to help the child answer the question.

**Maximum time is 1 minute per question.** Most children will give up before this time so tell them to say 'finish' when they can't come up with any more answers for a question. Don't rush them.

## **RECORDING ANSWERS**

A range of acceptable answers can be given for each item. A student only receives one mark for each acceptable category suggested. A student may give more than one example from the same category; however, only one of these examples scores a mark for the category. Other acceptable categories may be accepted within a school. As long as the marking is consistent this will not effect the marking or selection of students within a school.

## QUESTION 1

Here is a funny drawing.

What does it remind you of?

What else could it be? (child's response).

What else could it be? (repeat until no more answers).



## QUESTION 2

Here is a newspaper that people read.

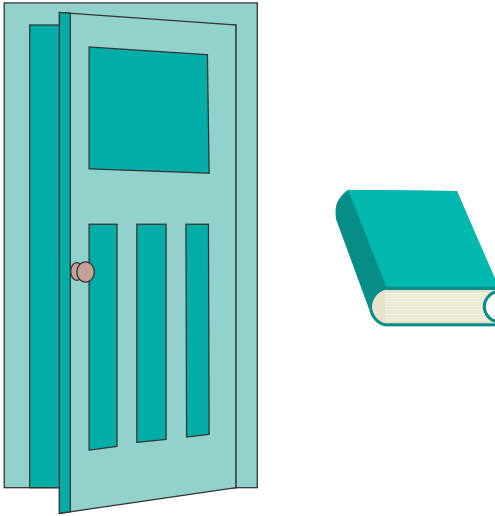
I wonder what **other things** you can use a newspaper for?

Can you tell me some?



### QUESTION 3

What are some ways in which a door and a book are the SAME?



### QUESTION 4

You can see most things with your eyes. But I know some things that **you can't see**. Can you tell me some?



## QUESTION 5

Here is a picture of a cute puppy dog.

When you look at the picture are you really sure that

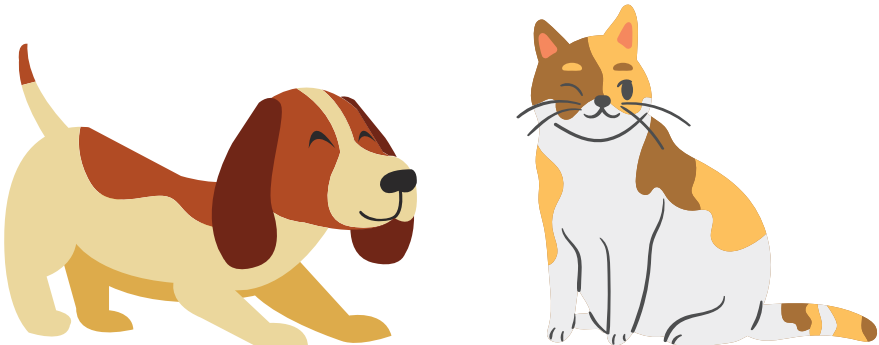
- 1) the puppy has its tongue hanging down? Yes or no?
- 2) the puppy is thirsty? Yes or no?
- 3) the puppy has been on a long run? Yes or no?



## QUESTION 6

Think of some cats and dogs that you have seen. Would everyone think, (or be able to prove) that:

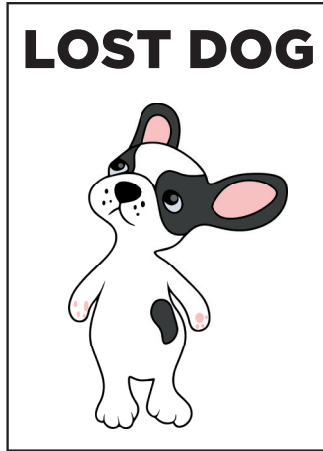
- ◆ Cats can climb trees better than dogs?
- ◆ Cats are prettier than dogs?
- ◆ Dogs make better pets than cats?



## QUESTION 7

Would it help you to find this lost dog if you knew

1. How much the owner paid for the dog? Yes or no?
2. The colour and type of dog it is? Yes or no?
3. When the owner bought the dog? Yes or no?



## QUESTION 8

Let's pretend that there were **no more trees in the world**? What are some things that animals and people **would not have any more**?



## SUGGESTED ANSWERS AND SCORING

### 1. One mark for each of the suggested categories below.

birds/fish	mouths	crack	crown
flames	fingers	glass broken	graph
hair	icicles	lightning	mountains
pyramids	scribble	stalactites	teeth
tents	waves	2 Ms	

*4 points*

Testing visual creativity and imagination

### 2. Maximum mark is 3 for any 3 of the categories below. More than 1 example from the same category does not score extra marks.

Flammable - light fires

Cleaner - tables, walls, books, windows

Cover - tables, walls, books, windows

Packing - glasses

Crafts - make kite, hat, paper mache

Absorber of liquids

*3 points*

Testing creative uses

- 3. Maximum mark is 3 for an example from 3 of the categories below. More than 1 example from the same category does not score extra marks.**

Same shape - rectangular

Man made - not alive

Made from tree/wood

Can open both

Found in homes

Have a front/back/sides

*3 points*

Testing creative similarities

- 4. Maximum mark is 3 for an example from 3 of the categories below. More than 1 example from the same category does not score extra marks.**

Mental processes - ideas, emotions, feelings, memories, thoughts

Things long dead - dinosaurs, people long dead

Concepts - heaven, hell, time, evil, songs, sounds

Spiritual - god, devil, angels

Gases - space, air/gasses

*3 points*

Testing creative reversals



**5. One mark for each yes/no question.**

In this picture are you sure that:

1. The dog has its tongue hanging down. Yes or no? **Answer Yes**
2. The dog is thirsty? Yes or no? **Answer No.**
3. The dog has been on a long run? Yes or no? **Answer No.**

*3 points*

Testing distinguishing sure from unsure conclusions

**6. One mark for each yes/no question.**

Would everyone think that

1. Cats climb trees better than dogs? Yes or no? **Answer Yes**
2. Cats are prettier than dogs? Yes or no? **Answer No.**
3. Dogs make better pets than cats? Yes or no? **Answer No.**

*3 points*

Testing distinguishing facts from opinions.

**7. One mark for each yes/no question.**

1. How much owner paid for dog? Yes or no? **Answer No**
2. The colour and the type? Yes or no? **Answer Yes.**
3. When the owner bought the dog? Yes or no? **Answer No.**

*3 points*

Testing distinguishing relevant from less relevant

**8. Maximum mark is 3 for an example from 3 of the categories below. More than 1 example from the same category does not score extra marks.**

Less wood

Less shade

Less places for birds to hide/sleep/rest

Less oxygen for us

Less leaves

Hotter

*3 points*

Testing ability to identify future consequences.

**Total = 25 points**