

## **Appendix C: Instrument translated into English**

# Images of Numeracy

1A

Apples are sold in bags of 2.5 kilograms. You weigh one apple and find it weighs 157 grams.

About how many apples are there in the bag?  
 apples

2A

Mr. Smith lives in the city of Groningen. He drives by car to the city of Maastricht. The distance between Groningen and Maastricht is 350 kilometres. The usage of the car is 1 litre petrol per 16 kilometres.

How many litres of petrol does a roundtrip take?  
 litres

3A

On the highway you see a road sign which says it is still 39 kilometres to Amsterdam. On this highway the maximum speed is 100 kilometres per hour.

How many minutes will it take to reach Amsterdam with this speed?  
 minutes



1B



About how many apples are there in the bag?  
 apples



2B



How many litres of petrol does a roundtrip take?  
 litres



3B

How many minutes will it take to reach Amsterdam with this speed?  
 minutes

4A

A color TV with free DVD player is marked down to € 719.-  
 You can pay the TV in installments.  
 Then you have to pay 39 times € 20.- a month.

How much more do you have pay if you pay in monthly installments?

€

6A

You buy groceries for a total of € 21.30  
 You pay with a 50 euro bill and two coins of 1 euro.

What is the change?

€

6A

For a picnic you found a recipe for wraps.  
 The recipe gives the ingredients for 5 persons: 2 packs of wraps, 250 grams of cream cheese, 1 sachet of garden herbs, 300 grams of fricandeau, green lettuce, pepper and salt to taste

How much cream cheese do you need for 12 persons?

grams

4B

How much more do you have pay if you pay in monthly installments?

€

You have to pay:

You pay with:

**SUPERMARKET**  
 Dahliastreet 5  
 Helmond

15 cans cola 330 ml	0.90	13.50
13 patato chips light	0.60	7.80
Number art. 13	sub total	21.30
<b>Total</b>		<b>21.30</b>



What is the change?

€

6B

6B

How much cream cheese do you need for 12 persons?

grams

# Images of Numeracy

7A

Harry went in the spring of 2008 on a holiday trip to Iceland. In Iceland one pays with Icelandic Krona (ISK). During the holiday trip the exchange rate was: € 100 = ISK 13 400 and ISK 100 = € 0,74627. An Icelandic magazine costs 670 ISK.

**What is the price for this magazine from Iceland?**

€

8A

The regular price for a men's suit is € 399.- There is a special discount where you pay as the price the actual level of the Dutch stock market index (AEX). The AEX index level today is 342.40.

**What percentage is the discount if you buy the suit today?**

%

9A

The Dutch Government want to cut expenses by € 18 billion euro. That are 360,000,000 bills of 50 euro. Those bills can be piled up in a huge pile. A pile of 1000 bills of 50 euro is about 11 cm in height.

**What will be the height of the total pile?**

km

7B



In Iceland one pays with Iceland Krona (ISK).

€ 100 = ISK 13 400  
100 ISK = € 0,74627

**What is the price for this magazine from Iceland?**

€

8B

Today the AEX index level is 342.20



**What percentage is the discount if you buy the suit today?**

%

9B

The Dutch Government want to cut expenses by € 18 billion euro. That are 360,000,000 bills of 50 euro. Those bills can be piled up in a huge pile.



**What will be the height of the total pile?**

km

10A

A sports car is made into a scale model.  
The real length of the car is 3.60 metres.  
The scale used is 1 : 30.

What is the length of the scale model?

cm

11A

The bathroom has two windows.  
They are both 0,90 m in width and  
1,35 m in height.  
You want to double glaze these windows.  
Double glazing costs € 148,- per m<sup>2</sup>

What is the cost of double glazing these windows?

€

12A

You have to tile a kitchen wall.  
The wall measures 2.60 m by 5.20 m.  
You use 25 tiles per square metre.  
You can only buy boxes of 50 tiles.

How many boxes do you have to buy to tile this wall?

boxes

10B

Real length of car  
= 3.60 metres  
Scale 1 : 30



What is the length of the scale model?

cm

11B



Double glazing  
€ 148,-  
per m<sup>2</sup>

What is the cost of double glazing these windows?

€

12B



25 tiles per m<sup>2</sup>  
50 tiles per box  
Only full boxes  
on sale.

How many boxes do you have to buy to tile this wall?

boxes

# Images of Numeracy

13A

A full water tank on a water dispenser contains 20 litres.  
Students from the dispenser fill their 25 cl water bottles.

How many water bottles can be filled from a full water tank?

bottles

14A

In the floorplan of your new house the size of the bedroom is 485 cm by 250 cm.  
You are furnishing the bedroom with carpet tiles of the brand Tosca.  
These tiles are 50 by 50 cm.

How many complete tiles do you need for the bedroom?

tiles

15A

On the market the price of endive is € 1.25 per kilo.

What do you have to pay for 1650 grams of endive?

€

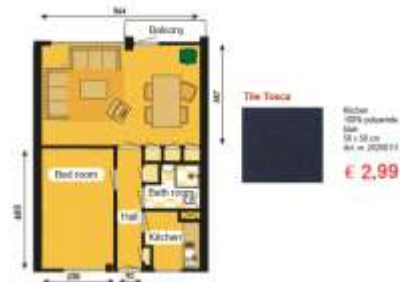
13B



How many water bottles can be filled from a full water tank?

bottles

14B



How many complete tiles do you need for the bedroom?

tiles

15B



What do you have to pay for 1650 grams of endive?

€

16A

You buy a pack of minced meat weighing 498 grams. The price is € 3.23.  
For 1 hamburger you need 80 grams of minced meat.

How many hamburgers can you make?  
 hamburgers

17A

You are using a medicine against coughing. The cough drops are sold in flasks of 100 ml. Adults and children of 12+ years old are allowed to take 5 ml as a dosage, with a maximum of 5 dosages per day. You use the maximum dosage.

How many days will one flask of cough drops suffice?  
 days

18A

A recent newspaper headline said that the public debt of the Netherlands increases with 1,105 euros per second.

How many billion euros the Dutch public debt increases in one year?  
 billion euros

16B



How many hamburgers can you make?  
 hamburgers

17B



How many days will one flask of cough drops suffice?  
 days

18B



How many billion euros the Dutch public debt increases in one year?  
 billion euros

# Images of Numeracy

19A

A cake tin is 25 centimetres long and 25 centimetres wide. The height is 8 centimetres.

How many litres of cake mix do you need to fill this cake tin half full?

liter

20A

The braking distance of a car with snow tires in snowy conditions is about 35 metres from a speed of 50 km/h. A car with regular tires has in these conditions a braking distance of no less than 43 metres.

How much percent is the braking distance smaller with snow tires?

%

21A

Afra designs packaging materials. She made a box for luxury chocolates. The bottom is a square with sides of 10 cm. The height is 4 cm. The manufacturer asks her to design a similar box, but with as a bottom a square with sides of 20 cm and a height of 8 cm.

The volume of the second chocolate box is, in comparison to the first,

times as big.

19B



How many litres of cake mix do you need to fill this cake tin half full?

liter

20B

Braking distance from a speed of 50 km/h

With snow tires  
35 metres



With regular tires  
43 metres



How much percent is the braking distance smaller with snow tires?

%

21B



10 by 10 by 4



20 by 20 by 8

The volume of the second chocolate box is, in comparison to the first,

times as big.



22



What is the water level in Texel at 8 PM approximately?  cm

23

Person	Costs
Child 1-3 years old	€ 2.60
Child 4-8 years old	€ 3.78
Child 9-13 years old	€ 4.90
Men 14- 65 years old	€ 6.35
Women 14- 65 years old	€ 5.81
Men & women 65+	€ 5.63

A household consists of:  
 mother 31 years old  
 father 33 years old  
 child 12 years old

Daily cost of food per person

What are the daily costs of food for this household? €

24

Distance table China in km

	Beijing	Chengde	Dal	Guangzhou	Guilin	Hangzhou	Hong Kong	Kunming
Beijing		148720221987	1887120021982388					
Chengde	1487		885 2398 975	140021987	711			
Dal	2622 888			1842114298001731 888				
Guangzhou	19871002921				451 2092 138 2327			
Guilin	1827 978 2134 493					2219 888 849		
Hangzhou	2002188200218871238						10022088	
Hong Kong	229419871718 128 588 1975							234
Kunming	2288 711 288 2187 888 20881234							

What is the distance between Guilin and Hongkong?  km