

Numeracy Test EXEMPLAR TEST 30 minutes No calculator allowed.

You may use paper for your working out. All correct answers are worth one mark.

Question 1

Teachers organised activities for three classes of 24 pupils and four classes of 26 pupils.

What was the **total number of pupils** involved?

Question 2

As part of a science lesson, pupils were asked to stretch a spring to extend its length by 25 per cent.

The original length of the spring was 30 centimetres.

What should be the length of the extended spring? **Give your answer in centimetres.**

Question 3

A parents' evening was planned to start at 15:45. There were 20 consecutive appointments of 10 minutes each and a break of 15 minutes during the evening. At what time was the parents' evening due to **finish**? **Give your answer using the 24-hour clock.**

Question 4

For a science experiment a teacher needed 80 millilitres of vinegar for each pupil. There were 30 pupils in the class. Vinegar comes in 1000 millilitre bottles.

How many bottles of vinegar were needed?

Question 5

The morning session in a school began at 09:25. There were three lessons of 50 minutes each and one break of 20 minutes. At what time did the morning session end? **Give your answer using the 24-hour clock.**

Question 6

In a class of 24 pupils, 4 need additional support.

What **fraction** of the class needs additional support? Give your answer in its **lowest terms**.

Question 7

A school has 203 pupils in Year 7. All pupils in the year group are provided with a free dictionary. If dictionaries come in boxes of 16, **how many boxes** are needed?

Question 8

All 30 pupils in a class took part in a sponsored spell to raise money for charity. The pupils were expected to get an average of 14 spellings correct each. The average amount of sponsorship was 20 pence for each correct spelling.

How much money would the class expect to raise for charity altogether? **Give your answer in pounds.**

Question 9

Pupils raise **£60** for charity through a sponsored run. They decide to donate the money to the charities **'Water Aid'** and **'Oxfam'** in the ratio **3:2**. How much will be donated to **'Water Aid'**?

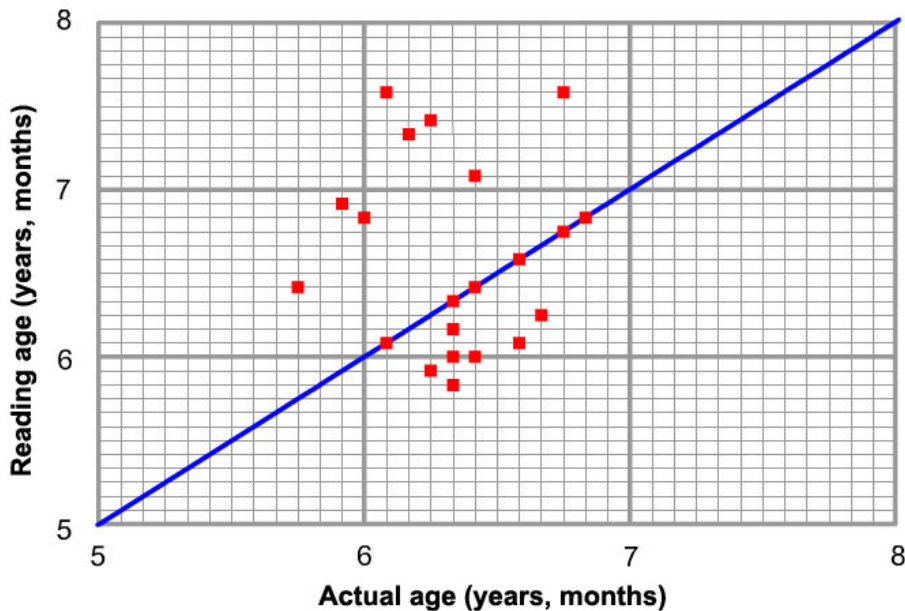
Question 10

A teacher took a group of pupils to an aquarium whilst visiting France. The total entrance cost for the group was 220 euros. Taking 1.10 euros as equal to 1 pound, what was the **total entrance cost, in pounds**, for the group of pupils?

Question 11

To inform her choice of reading materials a primary teacher looked at the spread of reading ages in her class. The scatter-graph shows the actual age and reading age of 21 pupils in the class.

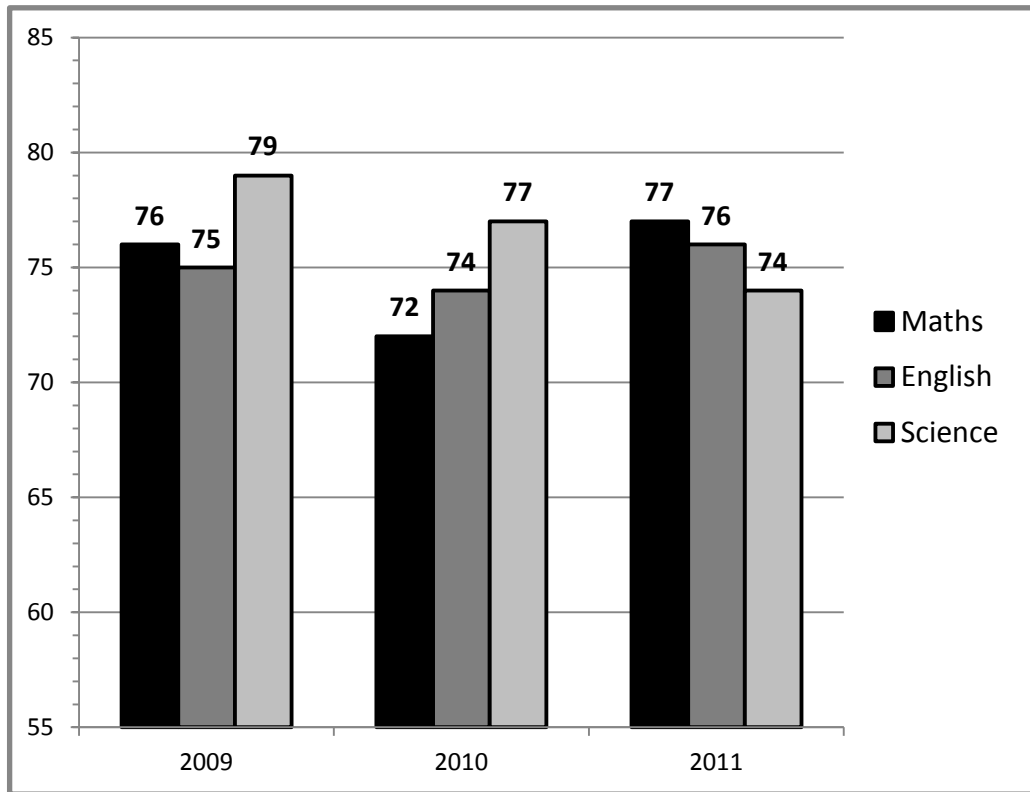
Use the information on the scatter-graph to help answer questions a) to c) below



- a) What **fraction** of the class has a greater reading age than their actual age?
- b) What is the age of the **oldest pupil** in the class?
- c) What is the **range of actual ages** for the pupils in the class? Give your answer in **months**

Question 12

The graph below shows the teacher assessments for the percentage of pupils achieving Level 4 or above at Key Stage 2 in a primary school.



Use the graph to decide which of the following statements are **true** for achievement at Level 4 or above:-

- A. The percentage of pupils achieving Level 4 or above in English has increased for each year shown
- B. In 2011, 77% of pupils achieved Level 4 or above in Maths
- C. The median average percentage for Science achievement in this period is 77%

Question 13

A PE teacher orders 30 new bibs costing £3.99 each. What is the **total cost** of these bibs?

Question 14

A school trip was planned at a total cost of £120 per pupil. The accommodation cost three fifths of the total.

What was the **cost of the accommodation per pupil**?

Question 15

At a staff meeting the Headteacher presented the following table, showing the number of pupils in each class in a school who are having Numeracy support lessons.

What **percentage** of pupils in the school is having Numeracy support lessons?

Class	Number of pupils	Number of pupils having Numeracy support lessons
P	28	6
V	28	7
T	32	3
M	32	2

Question 16

A teacher takes 2 hours and 20 minutes to mark twenty Literacy test papers. What is the **mean time spent** on each paper? **Give your answer in minutes.**

Question 17

A teacher is planning a trip to see a play in a nearby city. She has been given details of costs and travel. There are 20 pupils in the group. Group booking for 20 theatre tickets costs £160, return train tickets cost £6 each.

How much will each pupil have to pay for the outing to cover the cost of travel and a theatre ticket?

Question 18

A pupil's mean average GCSE points score is calculated by dividing their total points gained across all subjects by the number of GCSE examinations taken. The table below shows all of Kate's results in 2013. Use the table to help calculate Kate's **mean GCSE points score giving your answer correct to 1 decimal place.**

Grade	Points per grade	Number of results at each grade	Total points per grade
A*	58	3	174
A	52	2	104
B	46	4	184
C	40	1	40
TOTAL	

Numeracy Test**EXEMPLAR TEST****ANSWER SHEET****Fill in the answers only in the spaces provided**

Name:

Subject area:

Question number	Answer
1	pupils
2	cm
3	
4	bottles
5	
6	
7	boxes
8	£
9	£
10	£

Question number	Answer
11 a	
11 b	years months
11 c	months
12	True statements:-
13	£
14	£
15	%
16	minutes
17	£
18	points

Total score =

Numeracy Test**EXEMPLAR TEST ANSWERS****ONE MARK FOR EACH CORRECT ANSWER**

Question number	Answer
1	176 pupils
2	37.5 cm
3	19:20
4	3 bottles
5	12:15
6	—
7	13 boxes
8	£ 84
9	£ 36
10	£ 200

Question number	Answer
11 a	—
11 b	6 years 10 months
11 c	13 months
12	True statements:- B and C
13	£ 119.70
14	£ 72
15	15 %
16	7 minutes
17	£ 14
18	50.2 points

Maximum score = 20