## Numeracy Test EXEMPLAR TEST $\mathbf{3 0}$ 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 50 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 $\mathbf{2 4}$-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

What is $\mathbf{6 4 2}$ divided by $\mathbf{3}$ ?

## 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

Eight out of 25 pupils scored full marks in a test.
What percentage of pupils scored full marks?

## 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 $£ 100$ 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 <br> Numeracy support lessons |
| :---: | :---: | :---: |
| P | 24 | 4 |
| V | 26 | 3 |
| T | 26 | 2 |
| M | 24 | 2 |

## Question 16

A school's policy for Key Stage 2 was to set 3 hours of homework per week.
What was the mean average number of minutes to be spent on homework per weekday evening?

## 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 2011. Use the table to help calculate Kate's mean GCSE points score

| Grade | Points per grade | Number of results at <br> each grade | Total points per <br> grade |
| :---: | :---: | :---: | :---: |
| A* $_{\text {* }}$ | 58 | 1 | 58 |
| A | 52 | 3 | 156 |
| B | 46 | 1 | 46 |
| C | 40 | 5 | 200 |
| TOTAL |  | 10 | 460 |

## Numeracy Test <br> EXEMPLAR TEST ANSWER SHEET

Fill in the answers only in the spaces provided

Name: $\qquad$ Subject area:

| 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 EXEMPLARTEST ANSWERS
ONE MARK FOR EACH CORRECT ANSWER

| Question number | Answer |  |  |
| :---: | :---: | :---: | :---: |
| 1 |  | 176 | pupils |
| 2 |  | 45 | cm |
| 3 |  | 19:20 |  |
| 4 |  | 3 | bottles |
| 5 |  | 12:15 |  |
| 6 |  | - |  |
| 7 |  | 214 |  |
| 8 | £ | 84 |  |
| 9 |  | 32 | \% |
| 10 | £ | 200 |  |


| Question number | Answer |
| :---: | :---: |
| 11 a | - |
| 11 b | 6 years 10 months |
| 11 c | 13 months |
| 12 | True statements:$B$ and C |
| 13 | $£ \quad 119.70$ |
| 14 | £ 60 |
| 15 | 11 \% |
| 16 | 36 minutes |
| 17 | $£ \quad 14$ |
| 18 | 46 points |

## Maximum score $=20$

