

## **Functional Numeracy in a Professional Context    SAMPLE**

**Please place answers in the space provided. Show workings in the spaces provided.**

Name: \_\_\_\_\_

Group: \_\_\_\_\_

### **Question 1**

A parents' evening was planned to start at 16:15. 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.**

**A:** \_\_\_\_\_ **(1m)**

### **Question 2**

Teachers organised activities for five classes of 28 pupils and four classes of 29 pupils.  
What was the **total number of pupils** taking part?

**A:** \_\_\_\_\_ **pupils** **(1m)**

### Question 3

For a trip the school policy requests an adult to child ratio of 1:8. 212 pupils are going on the trip and there are 12 teachers and 7 teaching assistants. How many **extra adults** will be needed to be asked so that the ratio is 1:8?

A: \_\_\_\_\_ extra adults (1m)

### Question 4

A teacher took a group of pupils to a museum whilst visiting France. The total entrance cost for the whole group was 420 euros. Taking 1.05 euros as equal to 1 pound, what was the **total entrance cost, in pounds**, for the group of pupils?

A: £ \_\_\_\_\_ (1m)

### Question 5

For a science experiment a teacher needed 45 millilitres of vinegar for each pupil. There were 30 pupils in the class. Vinegar comes in 0.5 litre bottles. **How many bottles** of vinegar were needed?

A: \_\_\_\_\_ bottles (1m)

#### Question 6

The table below shows the highest and lowest recorded temperatures for Wales and Finland in 2013.

| Country | Highest Summer Temperature (°C) | Lowest Winter Temperature (°C) |
|---------|---------------------------------|--------------------------------|
| Wales   | 31                              | -15                            |
| Finland | 29                              | -26                            |

What is the difference in lowest winter temperatures between Wales and Finland?

A: \_\_\_\_\_ °C (1m)

#### Question 7

For a school trip costing a total of £248, seven eighths of the cost was for transport. What was the cost of transport?

A: £\_\_\_\_\_ (1m)

#### Question 8

All 32 pupils in a class were asked to bring in 12 cakes each for a charity cake sale. They sold each cake for 20p each. How much money did the class raise? **Give your answer in pounds.**

A: £ \_\_\_\_\_ (1m)

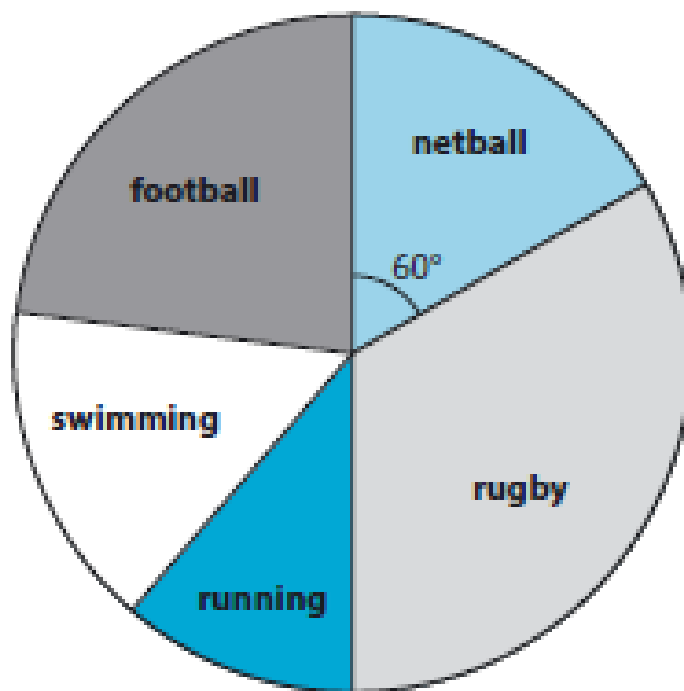
#### Question 9

A Spanish teacher orders 35 CDs costing £10.99 each. What is the **total cost in pounds** of these CDs?

A: £ \_\_\_\_\_ (1m)

#### Question 10

**Favourite sports**



10 children voted for netball.

How many voted for rugby?

How many voted altogether?

2m

At a staff meeting the head teacher presented the following table, showing the number of pupils in each class in a school who are having additional reading support.

| Class | Number of pupils | Number of pupils having additional reading support |
|-------|------------------|----------------------------------------------------|
| 1     | 23               | 5                                                  |
| 2     | 23               | 4                                                  |
| 3     | 27               | 7                                                  |
| 4     | 27               | 5                                                  |
| 5     | 25               | 4                                                  |

What is the percentage of pupils having additional reading support in the school?

A: \_\_\_\_\_% (1m)

### Question 12

A teacher buys dictionaries for use by each pupil in a year group. The dictionaries come in packs of 16. How many packs are needed for a year group with 250 pupils?

A: \_\_\_\_\_ (1m)

### Question 13

Scores in a game:

20   22   16   27   19   16

**What is the range?**

**A:** \_\_\_\_\_ **(1m)**

#### **Question 14**

**A rectangular area of the school grounds has a width of 6.7m and a length of 10.8m. What is the perimeter of this space?**

**A:** \_\_\_\_\_ **m (1m)**

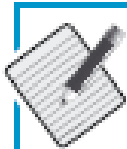
### Question 15

Dev and Anna each invested £500

After one year

|                                                 |                                                   |
|-------------------------------------------------|---------------------------------------------------|
| <b>Dev</b><br>£500<br><b>decreased by</b><br>5% | <b>Anna</b><br>£500<br><b>increased by</b><br>15% |
|-------------------------------------------------|---------------------------------------------------|

After one year, how much **more** does Anna have than Dev?



£

1m

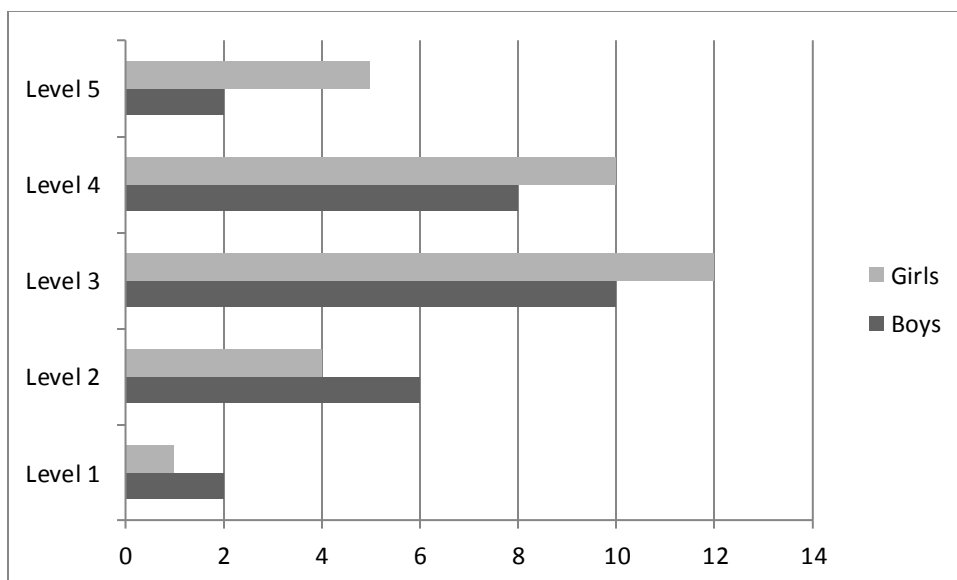
### Question 16

A teacher travels to a conference in Cardiff. His average speed is 50 miles per hour. If the teacher has to travel 75 miles, how long should it take him to get to the conference ?

A : \_\_\_\_\_ hours (1m)

### Question 17

A teacher analysed 60 pupils' performance at the end of Year 5.



Pupils judged to have achieved level 3 and below were targeted for extra support. What fraction of the pupils needed extra support? Give your answer as a fraction in its lowest terms.

A: \_\_\_\_\_ (1m)

### Question 18

In a long jump competition, the following scores are recorded:

| <b>Name</b> | <b>Jump (in metres)</b> |
|-------------|-------------------------|
| Tomos       | 1.01                    |
| Talia       | 0.74                    |
| Ali         | 1.1                     |
| Samir       | 0.9                     |
| Jess        | 1.05                    |
| Rhian       | 1.15                    |

List the results in ***descending*** order

A: \_\_\_\_\_