Surname		Other Names	
Centre Number			Candidate Number									
Candidate Signature												

For Examiner's Use

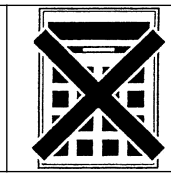
General Certificate of Secondary Education
Functional Skills Certificate
January 2009

MATHEMATICS (PILOT) **93001/1P**
Functional Mathematics Level 2
Paper 1 (Competency)
Non-calculator

Friday 9 January 2009 9.00 am to 9.40 am

You will need no other materials.

You must **not** use a calculator.



Time allowed: 40 minutes

For Examiner's Use	
Pages	Mark
2–3	
4–5	
6–7	
8	
TOTAL	
Examiner's Initials	

Instructions

- Use black ink or black ball-point pen. Draw diagrams in pencil.
- Fill in the boxes at the top of this page.
- Answer **all** questions.
- You must answer the questions in the spaces provided. Answers written in margins or on blank pages will not be marked.
- Do all rough work in this book.

Information

- The maximum mark for this paper is 30.
- The marks for questions are shown in brackets.

Answer **all** questions in the spaces provided.

1 Work out 237 + 384

.....

.....

.....

Answer ..... *(1 mark)*

2 37 582 people go to a football match.

Write this number to the nearest thousand.

Answer ..... *(1 mark)*

3 Work out $\frac{1}{8}$ of 320.

.....

Answer ..... *(1 mark)*

4 Convert 3.5 kilometres to metres.

.....

Answer ..... m *(1 mark)*

5 Work out the number that is halfway between 4.2 and 5.2

.....

.....

.....

Answer ..... *(1 mark)*

6 Write 75% as a fraction in its simplest form.

Answer ..... *(1 mark)*

7 What temperature is five degrees warmer than –3 °C?

.....

Answer ..... °C *(1 mark)*

8 Kevin buys a sandwich for £1.95 and a carton of juice for 68p.

How much does he spend in total?

.....

.....

.....

Answer £ ..... *(1 mark)*

9 Rob leaves home at 7:55 am to walk to school.
His journey takes him 25 minutes.

What time does he arrive at school?

.....

Answer ..... am *(1 mark)*

10 Work out 3 – 2.79

.....

.....

.....

Answer ..... *(1 mark)*

10

11 The area of a square is 100 cm^2.

Write down the length of one side of the square.

.....

Answer ..... cm *(1 mark)*

12 How many 500 ml bottles can be completely filled from a jug containing 2.3 litres of water?

.....

.....

Answer ..... *(1 mark)*

13 Here is a formula $s = \frac{d}{t}$

Work out the value of s when $d = 1200$ and $t = 3$

.....

Answer ..... *(1 mark)*

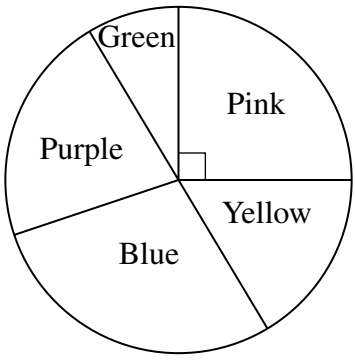
14 Work out 5% of 240.

.....

.....

Answer ..... *(1 mark)*

15 The pie chart shows the favourite colours chosen by 36 girls.



How many girls chose pink?

.....

Answer ..... *(1 mark)*

16 Teri has two red cards and three green cards.
She chooses one card at random.

What is the probability that the card she chooses is red?

Answer ..... *(1 mark)*

17 Use the conversion 5 miles = 8 kilometres

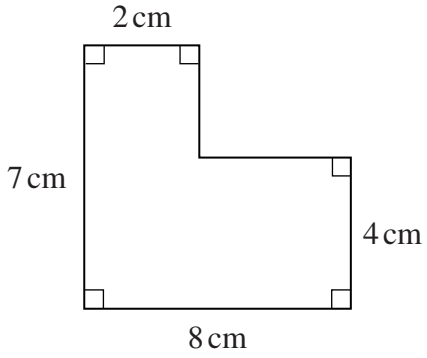
to convert 40 miles to kilometres.

.....

.....

Answer ..... km *(1 mark)*

18 Work out the perimeter of this shape.



Not drawn accurately

.....

Answer ..... cm *(1 mark)*

19 Work out the mean of these numbers.

7 14 5 6 2 8

.....

.....

Answer ..... *(1 mark)*

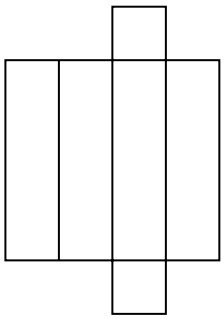
9

20 Estimate the value of 19.9×3.8

.....

Answer ..... *(1 mark)*

21 Here is a net of a solid shape.



What is the mathematical name of the solid?

Answer ..... *(1 mark)*

22 Solve the equation $3x - 4 = 11$

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.....

.....

Answer x = ... *(1 mark)*

23 1.4 euros = £1

Convert 28 euros into pounds.

.....

.....

Answer £ ..... *(1 mark)*

24 Work out $12^2 - 11^2$

.....

Answer ..... *(1 mark)*

25 Peter scores seven out of twenty in a test.

Work out his score as a percentage.

.....

.....

Answer ..... % *(1 mark)*

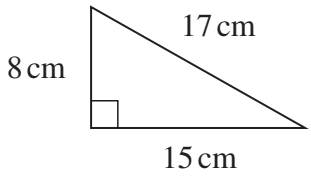
26 Divide 330 in the ratio 1 : 10

.....

.....

Answer ..... and ..... *(1 mark)*

27 Work out the area of this triangle.



Not drawn accurately

.....

Answer ..... cm^2 *(1 mark)*

28 Work out $\frac{2}{3} + \frac{1}{9}$

.....

.....

Answer ..... *(1 mark)*

Turn over for the next question

9

29 Multiply 2.1 by 0.6

.....

.....

.....

Answer ..... *(1 mark)*

30 On a map a footpath is 3 cm long.
The scale of the map is 1 : 1000

What is the actual length of the footpath?
Give your answer in metres.

.....

.....

Answer ..... m *(1 mark)*

END OF QUESTIONS

2