

# 9

**PLEASE NOTE:**

Papers 1, 2 & 3 have been discontinued.

For 2007 the packs contain

6 Mathematics Papers numbered 4 – 9

**SAMPLE TEST**

**FOR SALE**

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**THE LATYMER SCHOOL**

**MATHEMATICS ENTRANCE TEST 2006**

**Time allowed: One hour**

**Read these instructions before you start:**

- There are **50 questions** in this paper and each question is worth **one mark**.  
Work through the questions in the order that they appear. There may be some questions that you cannot do. Leave these and go on to the next question: you may have time to return to them at the end for another attempt.
- Use the space by each question to work out your answer. The blank pages may be used for working if there is not enough space by the question.
- You may use a pen or a pencil for this test.
- **Calculators are not allowed.**

Correct	Wrong	Examiner

This paper consists of **50 questions** on **10 printed pages**.

LATYMER SCHOOL  
MATHEMATICS ENTRY TEST 1 hour

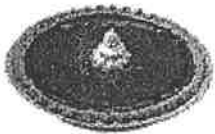
1. Write down in figures the number that is 3 less than two hundred thousand.

Answer .....

2. If  $731 - 1 \blacksquare 8 = 573$   
What number has been covered by  $\blacksquare$ ?

Answer  $\blacksquare$  covers a number.....

3. How much do you save if you buy two pies on special offer?



£ 2.49 each  
special offer  
Buy 2 for £ 3.50

Answer £ .....

4. When Ben misbehaves he is sent to sit on the bottom stair for 8 minutes.  
Last month he spent 2 hours 24 minutes sitting on the bottom stair.  
How many times did he misbehave ?


Answer .....times

5. It takes me 23.6 seconds to find some information written on a piece of paper,  
and 1 min. 5.4 seconds to find it on the computer.  
How much quicker is it to find the information on the paper ?

Answer .....seconds

6. 79 will go into 6873 exactly, with no remainder.  
What is the **next highest** number that 79 will go into exactly ?

Answer .....

7.  241 jelly beans are shared **equally** between 11 children to the point where nobody can have any more. How many are left in the jar ?


Answer .....

8. Write down the next two numbers...


2      3      5      7      11      13      17      .....      .....

9. The ink in my biro pen is 9 cm long and lasts 100 days.  
How many centimetres of ink do I use each day ?

Answer ..... cm

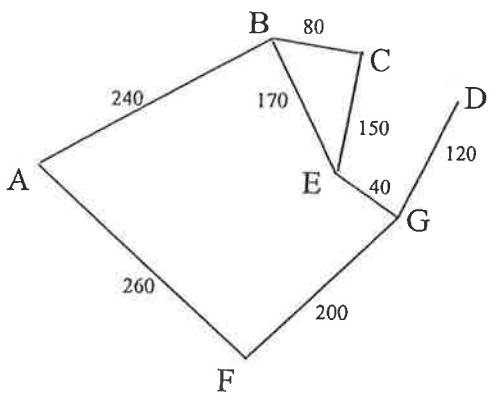
10.  A pot of healthy yoghurt weighs 120 grams and contains 100 calories. How many calories would there be in a 150 gram pot ?

Answer .....calories

11.  A photographer takes 200 photos at the seaside. Each photo costs him 50p to print but he then sells them all at 80p each.  
How much profit does he make ?

Answer £.....

12.



All lengths are metres.  
How long is the **shortest** route from **A** to **D** ?

Answer .....m

13. September 1<sup>st</sup> is a Monday, which begins with M .  
How many days in September begin with a T ?

Answer .....days

14. A helicopter rotor turns 420 times a minute.



How many times does it turn every second ?

Answer .....times

15.



English	32
Maths	48
Science	?

The table shows Lisa's test scores out of 50  
( the English test was very hard)  
If her average score for the 3 tests was 41, what did she get in science ?

Answer .....

16. What is 25% of  $\frac{1}{2}$  ? Write the answer as a **fraction**.

Answer .....

17. It costs £7 for children to get into the zoo, and £11 for adults. If the total paid was £68, how many children were there ?



Answer .....children

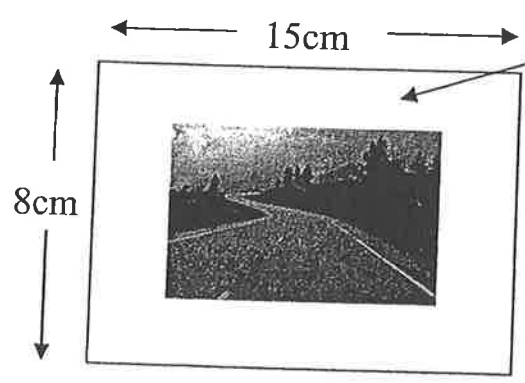
18. If  $X - 392 = 589$   
then  $X - 386 = \blacksquare$

Answer  $\blacksquare =$ .....

19. Postage stamps cost 28p and 32p. I buy an **equal number** of each, and the total cost is £12. How many stamps do I buy **altogether** ?

Answer .....

20. The white bit is 2cm wide all round  
What is the area of the picture in the middle?



Answer .....square cm

21. Ring the number that is the same as 16 hundredths.

- 1.6      0.16      0.016      0.0016      0.106



22. A number is 'frizzed' by multiplying the first digit by 2, then adding the others.  
 So 93 frizzed equals  $2 \times 9 + 3 = 21$ .  
 What is the **smallest** number that can be frizzed to get an answer of 17 ?

Answer .....

23. A man takes **6 min** to iron a shirt. A woman takes only **4 min**.  
 After ironing for **2 hours** ( they've put this job off for several weeks ! ) the woman  
 has ironed **X** more shirts than the man. What is **X** ?

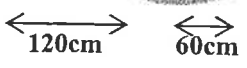


Answer X = .....

24. **Three** buses are hired for an outing. Each one can take **41** passengers, **29** seated,  
 the rest have to stand. If **101** people went on the outing, and every seat was taken,  
 how many had to stand ?

Answer .....

25. Jay went for a very uncomfortable cycle ride on  
 this old bike.  
 The **big front wheel** turned round **250** times.  
 How many times did the back wheel turn ?



Answer .....times

26. My magazine has **80** pages, and an average of **419** words on a page .  
 How many words are there in my magazine ?



Answer .....words

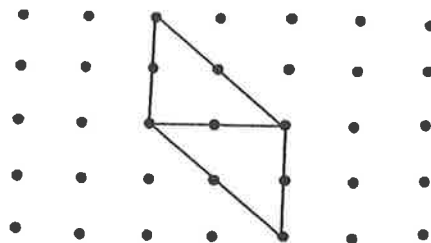


27. Newspapers from Monday to Friday cost **48p** each day.  
 A Saturday paper costs **95p**. A Sunday paper costs **£1.40**  
 How much does it cost for a whole week's papers ?

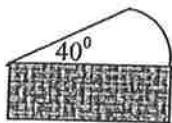


Answer **£** .....

28. Add **two** more triangles **of the same size** to make a bigger one.

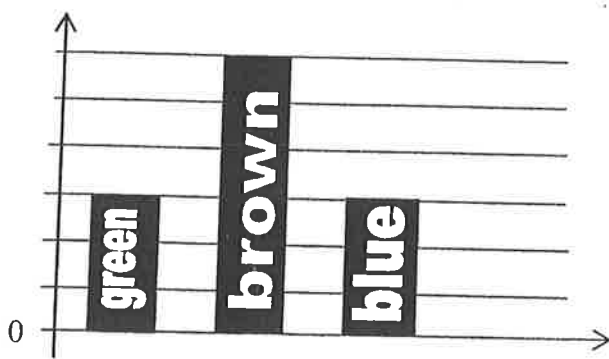


29. How many pieces like the one shown can be cut from **1 round cake** ?



Answer .....pieces

30. Pupils in a school had either blue or brown or green eyes.  
 What % of them had **blue** eyes ?



Answer ..... %

31. There were 280 plums on my tree. Squirrels ate  $\frac{3}{4}$  of them, I picked the rest but half of those were bad.  
 How many good plums did I get ?

Answer .....plums

32.

Put a tick in the **two** other shapes **above** that could be used with the rectangle to make this shape.

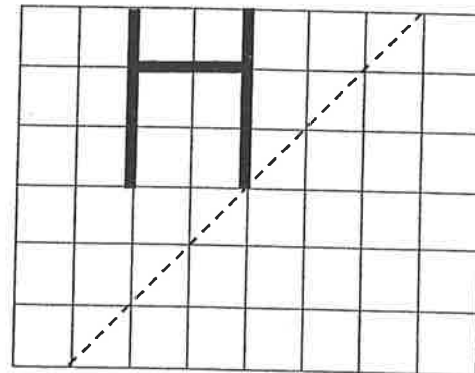
33. **R = 100**

**N = whole number between 10 and 20**

Put a ring round any number below that could be **R x N**

- 150      13      700      103      1700      1250

34. Draw the reflection of the shape in the dotted line.



35.



A magic beanstalk grows **47cm** a day. Today it is **6.20 metres** tall, how tall was it in metres this time **two** days ago ?

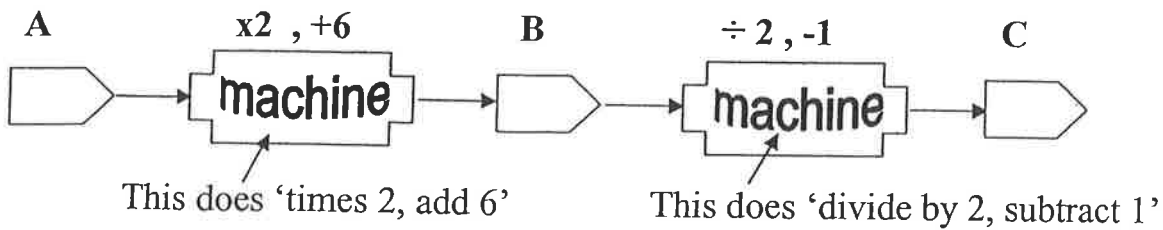
Answer .....metres

36. Fizzy drink costs **40p a can**. The table shows how many 10p and 20p coins there were in the drinks machine. How many cans of drink were sold ?

Coins	10p	20p
How many	32	12

Answer .....cans





so 3 put in at A becomes 12 at B and then 5 at C

37. What do you get at C if 7 is put in at A ?

Answer..... at C

.....  
 38. If 17 appeared at C, what was in B ?

Answer ..... in B

39. Mum and dad take their three children to a theme park.  
 Adult tickets cost **£8.50**, a child's ticket costs **£5.25**.  
 How much would be saved if they bought the family ticket which lets them  
 all in for **£27.00** ?

Answer **£** .....saved



In a computer game, a troll is **4** times more powerful than an elf, and an elf is **2½** times more powerful than an imp.

40. How many times is a **troll** more powerful than an **imp** ?

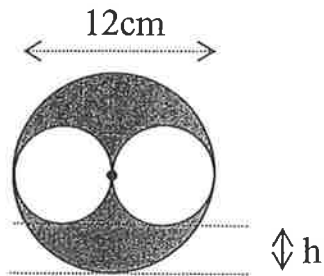
Answer .....times

.....  
 41. If an **elf** has **power level 15** what is the power level of an **imp** ?

Answer .....



42.



Two identical small circles fit exactly into the bigger circle with centre • as the diagram shows. What is the length marked **h** ?

Answer  $h = \dots\dots\dots\text{cm}$

43. The number **8** is half way between

**- 5** and **..... ?**

.....

44. The number **8** is half way between

**3.6** and **..... ?**

Here is a very old way of writing numbers....

60	6	1	number this stands for
▼	^^ ^		= 79
	^^ ^^ ^		Answer =.....

45. Fill in the answer box

.....

46. Fill in the 3 empty boxes which make the number 134.

			= 134
--	--	--	-------



47.

If Jo saved **25p** every **week** out of her pocket money, how much would this be in a year? (use a whole number of weeks in a year)



Answer **£** .....

48. Jenny only likes milk chocolate, and will not eat the dark kind. She has to close her eyes and pick a chocolate from a box, but she can first decide which box.

<u>Box</u>	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>
Milk	2	3	4	4	5
Dark	2	4	4	3	4

Put a ring round the box she should choose.

49.



3 pencils and 2 pens cost **£1.70**,  
but 3 pencils and 1 pen would cost **£1.33**

How much does a **pencil** cost in pence?

Answer ..... pence

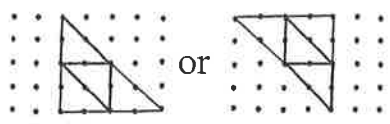
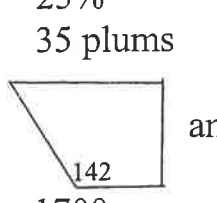

50. In 6 years time Mira will be twice as old as she was 3 years ago.

How old is she now?

Answer ..... years old



ANSWERS TO MATHEMATICS ENTRY TEST NOVEMBER 2006

- 1. 199997
- 2. 5
- 3. £ 1.48
- 4\*. 18 times
- 5. 41.8 seconds
- 6. 6952
- 7. 10
- 8\*. 19, 23 both prime numbers
- 9\*. 0.09 cm
- 10. 125 calories
- 11. £60.00
- 12. 570 m
- 13. 9 days
- 14\*. 7 times
- 15. 43
- 16.  $\frac{1}{8}$  or equivalent
- 17. 5 children
- 18. 595
- 19\*. 40 (or '20 of each')
- 20\*. 44 square cm
- 21. 0.16
- 22\*. 49
- 23. 10
- 24. 14
- 25. 500 times
- 26. 33520 words
- 27. £ 4.75
- 28. 
- 29. 9 pieces
- 30. 25%
- 31. 35 plums
- 32. 
- 33. 1700
- 34. 
- 35. 5.26 metres
- 36. 14 cans
- 37. 9 at C
- 38. 36 in B
- 39. £5.75 saved
- 40\*. 10 times
- 41\*. 6
- 42. 3 cm
- 43. 21
- 44. 12.4
- 45. 32
- 46\*. ▼▼ ^^ ||
- 47. £13.00
- 48. D
- 49. 32 pence
- 50\*. 12 years old

\* proved to be more difficult than most

Mean test score 33.2  
 Median test score 34

