

3

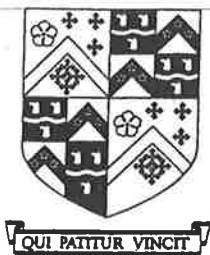
**SAMPLE TEST
FOR SALE**

Registration No:

Surname:

First Name:

Copyright of The Latymer School



THE LATYMER SCHOOL

MATHEMATICS ENTRANCE TEST

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. You need a short ruler.
- **Calculators are not allowed.**

Mark	Examiner

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



LATYMER SCHOOL
MATHEMATICS ENTRY TEST 1 hour

1. Write down the number 'seven hundred thousand four hundred and six' in figures.

Answer _____

2. What number must be added to 685 to make 733 ?

Answer _____

3. You are told that $423 \times 215 = 90945$
Write down the answer to 846×215

Answer _____

4. What number does ☆ stand for in
this subtraction sum ?

$$\begin{array}{r} 526 \\ - 2\star8 \\ \hline 278 \end{array}$$

Answer ☆ stands for _____

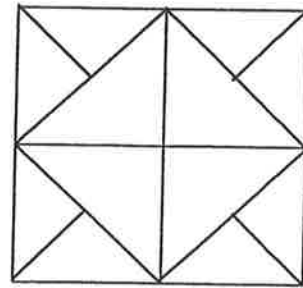
5. To spend a day at the theme park adults have to pay £8.75 and children £6.25
How much would it cost for 2 adults and 2 children ?

Answer £ _____

6. Gemma takes 25 min to wash and dry her hair, and then 14 min to walk to the station. She starts washing her hair at 7.15 am.
When she gets to the station how many minutes will she have to wait for the 8.05 am train. ?

Answer _____ min

7. Shade in $\frac{3}{16}$ ths of the square shown here



8. Bart wrote 'I must not be rude to Principal Skinner' 50 times in **9 min. 48 sec.** , beating the old record by **1 min. 32 sec.** (He had had lots of practice)
What was the old record in minutes and seconds ?



Answer _____ min _____ sec

9. James keeps up a steady cycling speed of **18 km per hour.**
How far would he cycle in **1 hour and 10 minutes** ?



Answer _____ km.

10. A teacher shares **100** jelly babies amongst **6** children so that each gets the same. (They have been very well behaved !)
The teacher has the few that are left over.
How many does the teacher have?



Answer _____

11. Which of the numbers below, when **divided by 100** gives a whole number between **10** and **20** ?
Put a circle round it.

1640

400

1300

2500

1550

12. I think of a number, double it, and subtract 9 : the answer I get is 17.
What was the number I thought of?

Answer _____

-
13. Put a circle round the odd one out.

75% $\frac{3}{4}$ $\frac{750}{1000}$ 0.075 $\frac{15}{20}$

-
14. A plank of wood 102 cm long is cut into 2 pieces so that one piece is twice as long as the other. Find the length of the longest piece in cm.

Answer _____ cm.

-
15. Liam is sponsored for 25p a length in a charity swim.
He is a very good swimmer.
After the event he collects £ 19.75. How many lengths did he swim ?

Answer _____ lengths

16. If $y - 246 = 791$

then $y - 240 = ?$

Answer $y - 240 =$ _____

-
17. Put a circle round the number which is

3 hundreds no tens and 26 units

300026

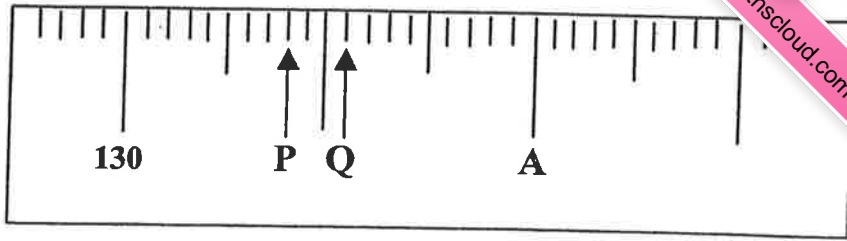
30026

3026

326

none

18. On the centimetre ruler shown here, the distance from P to Q is 1.5 cm. What number should be on the ruler at A?



Answer _____

19. Arrange in order of size, smallest first :

0.03 0.009 0.025 0.0162

Answer.....

20. The latest hit record is by a group of 3 girls whose ages are

17years 2 months 17years 4 months 18years 3 months

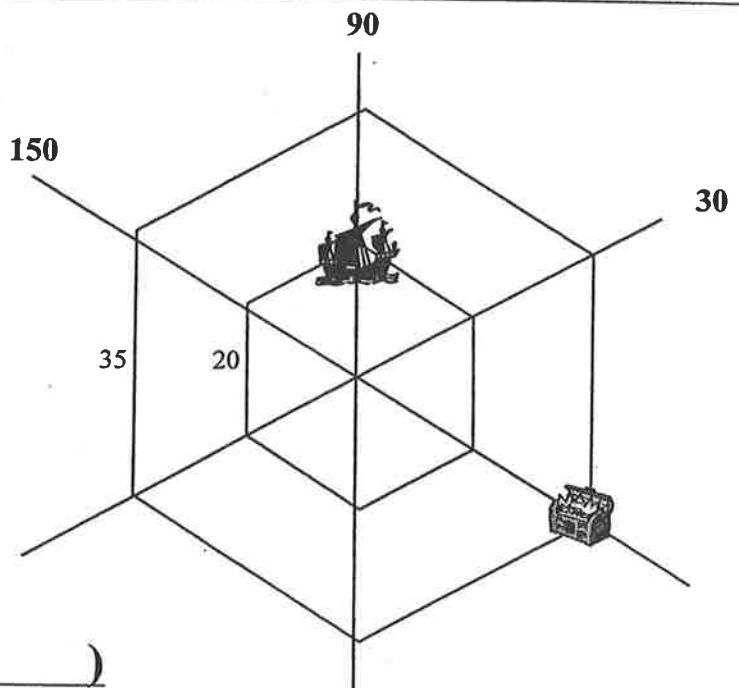
Find their average age in years and months

Answer _____ years _____ months

21.

The pirate ship is at (20 , 90)

Where is the treasure ?



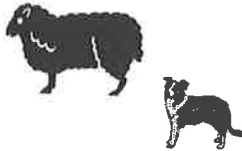
Answer (_____ , _____)

22. Jo buys 20 cameras for £6.99 each, and sells them for £10.00 each. How much profit does Jo make if he sells all the cameras ?



Answer £ _____

23. 178 sheep, 2 dogs and a farmer are in a field. How many legs would you expect to see ? (assume you can see them all !)



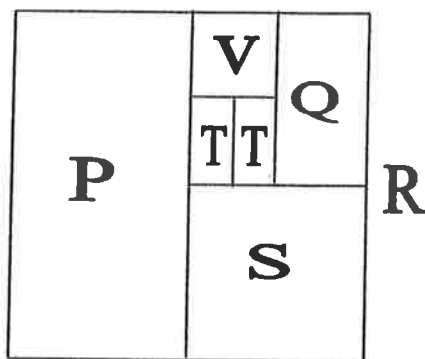
Answer _____ leg

In questions 24 , 25 put in the missing number on the dotted line.

24. 11 9 6 2

25. $\frac{1}{4}$ $\frac{1}{2}$ 1 2

26.



R is the whole square.
One of the following is not true.
Put a ring round it.

$R = P + S + 2Q$ $S = 6T + V$

$R = P + 8V$ $Q = S - 2T$

$S = P - 4T - 2V$

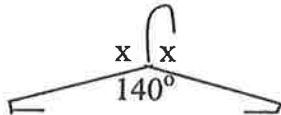
27. How many 2's would you write if you wrote all the numbers from 100 to 200 including 100 and 200 ?

Answer _____ 2's

28. I buy 12 postcards at 12p each, and 12 second class stamps at 20p each.
How much change do I get from a £5 note ?

Answer £ _____

29.



A wire coat hanger is shown in the diagram.
What is the angle x in degrees ?

Answer $x =$ _____ degrees

30. Tesbury's carrier bags break if you try to carry more than 10 kg in them.
(It usually happens when you're crossing a busy road)
After buying 6.5 kg of potatoes and 2.9 kg of apples how many grams of grape
at most can I add without the bag breaking ?



Answer _____ grams

31. Each day in April Peter planted 18 seeds.
How many was this altogether ?



Answer _____ seeds

32. Fill in the grid so that each row
and each column contains just
one 1, one 2, and one 3
in any order.

	2	
1		

33. 8 lamp posts stand in a straight line. The distance from each post to the next is 34 metres.

What is the distance from the first post to the last ?

Answer _____ m.

34. 2 tractors can plough all the fields on the farm in 6 days.
How long would it have taken 3 tractors ?



Answer _____ days

35. The scoring in a quiz game is 5 points for a correct answer but you lose 2 points for a wrong answer.

Amit answered all 25 questions and scored 83 points.

How many did he get wrong ?

Answer _____

36.



When a spinner is spun the score is the number it lands on.
Both spinners are spun and scores added together to get a total.
How many different totals is it possible to get ?



Answer _____

37.

1	1
6	16
3	7
2	

Look at the numbers in the boxes.
What number goes in the empty box ?

Answer _____

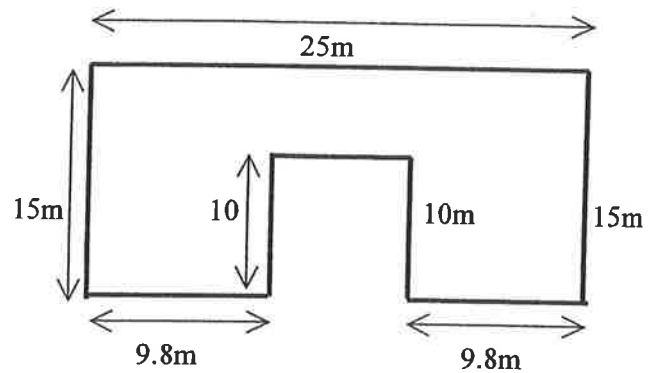
38.



A new car in the showroom is priced at £15500. However, on the internet I can find the same model for 20% less. How much would I save by buying on the internet?

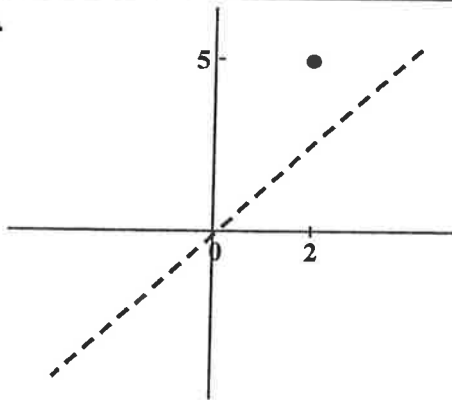
Answer £ _____

39. Find the distance round the outside of this shape.
All lengths are in metres



Answer _____ metres

40.



The dot shown is at the point (2 , 5).

Write down where the point goes to when it is reflected in the dotted line.

Answer : the point goes to (_____ , _____)

41. 10% of any group of people are left handed.
There are 3 left handed people in a room.
How many right handed people would you expect there to be in that room?

Answer _____



The job of every machine is to 'multiply by 3 then subtract 5'
So 4 put in at A becomes 7 at B and so on.

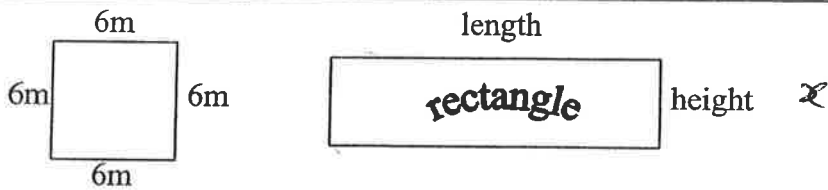
42. If 4 is put in at A what comes out at D ?

Answer _____

43. What number put in at A becomes 34 at C ?

Answer _____

44.

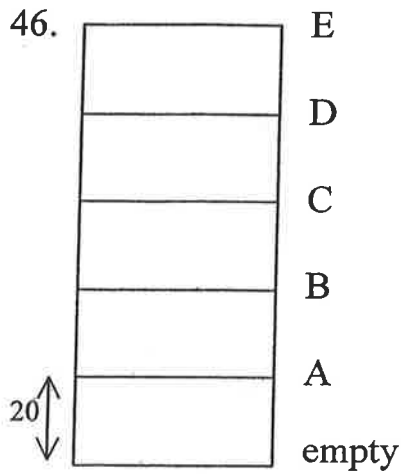


The distance round each shape is the same.
If the length of the rectangle is four times
its height, find its height in metres.

Answer _____ m

45. The probability that my morning train is cancelled, making me late for school,
is $\frac{4}{15}$.
How many times will this make me late in a term of 60 days ?

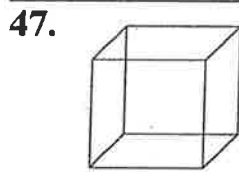
Answer _____ times



The levels are **20 cm** apart.
If the tank takes **2 min** to fill from empty up to level **E**,
how long will it take from empty to reach level **D**?

Give the answer in seconds.

Answer _____ seconds



Each face of this cube is painted. What is the smallest number of colours needed if no two faces next to each other are the same colour?

Answer _____ colours

Shown here is part of a train timetable for trains running from Ponders End to Liverpool Street.
Using this, answer questions 48 and 49 below.

Ponders End	1849	1901	1906	1913	1928
Lower Edmonton	1900	1912	1917	1924	1938
Upper Edmonton	1906	1918	1923	1930	1943
Tottenham	1915	1927	1932	1939	1952
Stamford Hill	1923	1935	....	1945	1958
Dalston	1934	1945	....	1955	2008
Shoreditch	1941	1951	....	2001	2014
Liverpool Street	1945	1955	....	2005	2018

48. I am meeting a friend at **Liverpool Street** at **8.00 pm**. What is the latest time I can catch a train from **Lower Edmonton**?

Answer (in 24hr time) _____

49. In the journey from **Ponders End** to **Liverpool Street** how much quicker is the **7.13pm** train from Ponders End compared to the **6.49pm** train?

Answer _____ min. quicker

50. There are **6** people in a meeting, and everybody shakes everybody else's hand once. How many handshakes are there?

Answer _____



Paper 3

ANSWERS : LATYMER MATHEMATICS ENTRANCE TEST NOVEMBER 2000

1. 700406
2. 48
3. 181890 (2 x 90945)
4. 4
5. £30
6. 11 min
7. 1 large + 1 small triangle or
3 small triangles
8. 11 min 20 sec
9. 21 km
10. 4
11. 1300
12. 13
13. 0.075 (all others are 0.75)
14. $\frac{102}{3} \times 2 = 68$ cm
15. 79 Lengths
16. 797
17. 326
18. 140 (140 cm)
19. 0.009 0.0162 0.025 0.03
20. (52 yrs 9 months)/3=17 yrs 7 months
21. (35,330) order matters
22. 20 x £3.01 = £60.20
23. 722 legs
24. -3
25. 4
26. Q = S-2T not true
27. 21 2's
28. £1.16
29. 110 degrees
30. 600 grams
31. 540 seeds
32. 2 1 3
3 2 1
1 3 2
- 33.* 238m (7 x 34m)
34. 4 days
- 35.* 6
36. 7 totals (2,3,4,5,6,7,8)
- 37.* 4 (2 x 3 - 2)
38. £3100
- 39.* 100m (2 x 25, 2 x 15, 2 x 10)
- 40.* (5,2) order matters
41. 27
42. 43
43. 6
- 44.* 2.4 m (10 x height = 24)
45. 16 times
- 46.* 96 seconds
47. 3 colours
48. 1912
49. 4 min quicker
- 50.* 15

* Proved harder than most

mean score 32/50

