2008 / Ist

Name:			

Mathematics Examination for Entrance to the First Form

Time: 1¹/₄ hours

This paper consists of two sections, Sections A and B. For entry into Oundle School, candidates are only expected to complete Section A within the 1½ hours, although you may tackle some of Section B if you want to and if you have time. Section B is really for those who are competing for a scholarship award. It is expected that such candidates will complete Section A in 45 minutes and then spend 30 minutes on the Section B questions.

Write ALL of your working on this paper. No other paper may be used. The answers alone are of no use. Show enough working on each question to show how you are getting your answer.

NO CALCULATORS ALLOWED

SECTION A

1.	Work out 65 + 88	2.	Work out 123 – 67
	Answer		Answer
3.	Multiply 76 × 9	4.	Work out 336 ÷ 6
	Answer		Answer

3.	in this list: 4, 11, 8, 2, 7, 13	ce the largest number
		Answer
6.	Write as a number: ninety thousand and nine	Answer
7.	When Greg started to climb Ben Nevis, the temper was 17 degrees. At the top, it was -2 degrees. drop in temperature as he climbed up the mountain	What was the overall
		Answer
8.	What is 463 minutes in hours and minutes?	
		Answer
9.	Melanie's father took 1 hr 25 mins to drive from P He left Peterborough at 11.45 am. At what time of	
		Answer

10.	Change 4.6 minutes into seconds.
	Answer
11.	Continue the sequences, giving the next two numbers each time:
	(a) 4, 10, 16, 22,
	(b) 1, 3, 9, 27,
	(c) $12, 7, 2, -3, \ldots, \ldots$
	(d) 1, 1, 2, 3, 5, 8,
12.	Find the missing numbers:
	3.49 × = 349 000
	9 ÷ = 36
13.	Five friends shared the cost of a mansion (priced at 3 million pounds) equally. How much did each of them pay ?
	Answer
14.	Susan's bus fare is exactly 44 p. If the driver can give her change, what is the smallest number of coins that can change hands when Susan pays to get on the bus? (Explain clearly)
	Answer

15.	· · · · · · · · · · · · · · · · · · ·	small primary school. During the of the girls saw the latest Harry Potter from the primary school saw the movie?
		Answer
16.	On a clock face, what is the angle be (Remember: the hour hand will have	
		Answer
17.	You are told that $22 \times 46 = 1012$. to:	Use this fact to write down the answers
	(a) 220 × 46	Answer
	(b) 2.2 × 0.46	Answer
	(c) $22\ 000\ 000 \times 0.046$	Answer
	(d) 101 200 ÷ 4.6	Answer

Answer

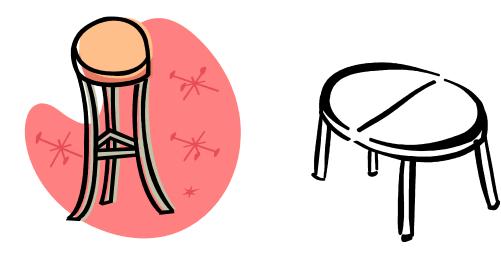
(e) 44×23

18.	
	36 cm
	A piece of wire 36 cm long is bent into the shape of a rectangle. If the rectangle is twice as long as it is wide, what is its area (in square centimetres)?
	Answer:
19.	Robert enjoyed his summer holiday. He spent half of it working in a music store. He spent half of the remaining time reading and relaxing at home, and, after spending 4 days at a friend's house, he had exactly 2 weeks left to attend a summer camp. How long (in days) was his summer holiday?
	Answer

SECTION B

PLEASE REMEMBER THAT YOUR FULL WORKING DETAILS MUST

	SHOWN IN EVERY QUESTION!
20.	What is 60% of 10% of \$900 ?
	Answer
21.	What is the smallest <u>odd</u> 5-digit number that you can make with the digits 4, 7, 5, 8, 3 using each digit only once?
	Answer

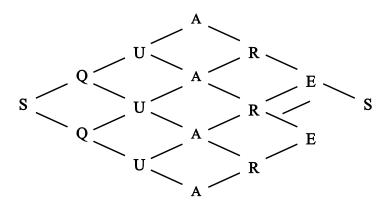


As his hobby, Fred builds 3-legged stools and 4-legged tables. Last month he used 72 legs and he built 3 more stools than tables. How many stools and how many tables did he build ?

Answer

23.	2008 is a leap year, and this year the 29 th of On what day of the week will the 29 th of Fe (2012)? (Remember there are 366 days in	bruary fall in the next leap year
		Answer
24.	Adam, Ben and Carl are weighing themselv Together, Adam and Ben weigh 102 kg Ben and Carl weigh 97 kg Adam and Carl weigh 93 kg. What is their total weight in kg?	7es.
		Answer

25. On this diagram, the start position is the letter S on the left, and the finish position is the letter the S on the right. You have to move from letter to letter, and you may only move along the lines. Following these rules, how many different routes can you find which spell out the word SQUARES?



(You may use the back of this sheet if you need extra space, but remember there is probably a quick, clever way of doing it rather than trying to write out all the possible routes!)

Answer	:	