(1)) Write the number 0.00037 in standard form.	(a)
(1)	Write 8.25×103 as an ordinary number.	(b)
) Work out $(2.1 \times 10^8) \times (6 \times 10^{-5})$. Write your answer in standard form.	(c)
(2) (4 marks)		
) Write 6.43×10^5 as an ordinary number.	(a)
(1)	Work out the value of $2 \times 10^7 \times 8 \times 10^{-12}$	(b)
	Give your answer in standard form.	
(2)		
(3 marks)		

		(1
(b)	Write 6.7×10^{-5} as an ordinary number.	
		(1
(c)	Work out the value of $(3 \times 10^7) \times (9 \times 10^6)$ Give your answer in standard form.	
		(4 marks
(a)	Write 8.2×10^5 as an ordinary number.	
		(1
(b)	Write 0.000 376 in standard form.	
		(1
(c)	Work out the value of $(2.3 \times 10^{12}) \div (4.6 \times 10^{3})$ Give your answer in standard form.	
		(2

(a) Write down the value of 10^0

3.

	(a)	Write the number 1 440 000 in standard form.
		(1)
	A ha	ard disk can store 2.4×10^9 bytes of data.
	(b)	Calculate the number of floppy disks needed to store the 2.4×10^9 bytes of data.
		(3) (4 marks)
6.	(a)	(i) Write 40 000 000 in standard form.
		(ii) Write 3×10^{-5} as an ordinary number.
	(b)	Work out the value of
	(0)	3 x 10 ⁻⁵ x 40 000 000
		Give your answer in standard form.
		(2) (4 marks)

A floppy disk can store 1 440 000 bytes of data.

5.

			(1)
	(b)	Write 1.4×10^{-5} as an ordinary number.	
			(1)
	(c)	Work out	
		$(5\times10^4)\times(6\times10^9)$	
		Give your answer in standard form.	
			(2) (4 marks)
8.	(a)	Write 6.4×10^4 as an ordinary number.	
	(b)	Write 0.0039 in standard form.	(1)
			(1)
	(c)	Write 0.25×10^7 in standard form.	
			(1)
	(d)	Work out $(3.2 \times 10^5) \times (4.5 \times 10^4)$ in standard form.	
			(2)
			(5 marks)

Write the number 40 000 000 in standard form.

7.

(a)

9.	(a)	(i)	Write 7900 in standard form.	
		(ii)	Write 0. 00035 in standard form.	
				(2)
	(b)	Worl	$x \text{ out } \frac{4 \times 10^3}{8 \times 10^{-5}}$	
		Give	your answer in standard form.	
				 (2)
				(4 marks)
10.	(a)	Write	e 30 000 000 in standard form.	
			•••••	 (1)
	(L)	V V	$e \ 2 \times 10^{-3}$ as an ordinary number.	
	(b)	VV III	e 2 × 10 as an ordinary number.	
				 (1)
				(2 marks)
-				
11.	(a)	Write	e 5.7×10^{-4} as an ordinary number.	
				 (1)
			,	(1)
	(b)	Worl	x out the value of $(7 \times 10^4) \times (3 \times 10^5)$	
		Give	your answer in standard form.	
				(2) (3 marks)
-				

	Write the following numbers in order of size. Start with the smallest number.							
		0.038×10^2	3800×10^{-4}	380	0.38×10^{-1}			
						(2 marks)		
13.	The time taken for	light to reach Eart	th from the edge o	f the know	vn universe is 14 000			
	Light travels at the	_	_			·		
	Work out the distar Give your answer i		from the edge of	the known	universe to Earth.			
	Give your answer	in standard Torrin.						
						1		
						km (3 marks)		
14.	The surface area of The surface area of	f Earth is 510 072 f Jupiter is 6.2179	000 km^2 . $5 \times 1010 \text{ km}^2$.					
		f Jupiter is greater	than the surface a	rea of Eart	th.			
	The surface area of How many times g Give your answer is	reater?	than the surface a	rea of Eart	th.			
	How many times g	reater?	than the surface a	rea of Ear	th.			
	How many times g	reater?	than the surface a	rea of Eart	th.			
	How many times g	reater?	than the surface a	rea of Eart	th.			
	How many times g	reater?	than the surface a	rea of Eart	th.			
	How many times g	reater?	than the surface a	rea of Ear	th.			
	How many times g	reater?	than the surface a	rea of Ear	th.			

15.

$$p^2 = \frac{x - y}{xy}$$

$$x = 8.5 \times 10^9$$
$$y = 4 \times 10^8$$

Find the value of p.

Give your answer in standard form correct to 2 significant figures.

.....

(4 marks)

16.

$$y^2 = \frac{ab}{a+b}$$

$$a = 3 \times 10^8$$

$$b = 2 \times 10^7$$

Find y.

Give your answer in standard form correct to 2 significant figures.

y =

(4 marks)