Q1.	Here	e are three expres	sions.				
		$\frac{b}{a}$	a – b	ab	1		
	Whe	en <i>a</i> = 2 and <i>b</i> =	= -6 which e	expression	has the small	est value?	
	You	must	t	show	your	workin	g.
	•••••						
	•••••						
				Answer			
							(Total 2 marks)
02							
Q2.	(a)	w and x are w	hole numbe	ers.			
		w > 40					
		<i>x</i> < 30					
		Work out the	smallest po	ssible valu	ie of <i>w</i> – <i>x</i>		
				•••••			
				Answer			
							(2)
	(b)	y and z are wl	hole numbe	rs.			
		<i>y</i> < 60					
		<i>z</i> ≤ 50					

Q3.

Work out the lar g	gest possible value of	y + z		
		er		(2)
			(Total 4	(2) marks)
Boxes A, B, C and D co	ntain balls with numbe	ers on them.		
Box A	Box B	Box C	Box D	
(1) (2) (3) (2) (1)	① ② ③	① ② ③ ③ ③	① ② ③ ③	
A ball is picked at rand	om from each box.			
(a) Which box gives You must show y	the greatest chance o	of picking a 3?		
		Box		
				(2)

	1?	ce of picking a 1	he same chan	o boxes give t	Which tw	(b)
(1)						
(Total 3 marks)						
		.00	hat add up to	wo numbers t	Circle the t	Q4. (a)
	76	65	35	34	21	
(1)						
			s that are ever	e two numbers	Circle the	(b)
	76	65	35	34	21	
(1)						
		are number 36	s than the squ	ber 31 is 5 les	The numl	(c)
	er.	square numbe	is 5 less than a	number that	Circle the	
	76	65	35	34	21	
(1)						
	ber.	a square numb	is 5 more thai	e number that	Circle the	(d)
	76	65	35	34	21	
(1) (Total 4 marks)						

Q5. P	ut the	se in order star	ting with the sr	nallest value.			
		13 4	$3\frac{1}{2}$	3.15	$\sqrt{9}$		
	You n	nust show you	working.				
							•
	•••••		•••••	•••••		••••••	
	•••••			•••••	••••••	•••••	•
	•••••	••••••	•••••	•••••••••••	•••••	•••••	
	•••••	••••••					•
			Smallest				
			Largest				
			J				(Total 3 marks)
Q6. H	ere is	a list of numbe	rs.				
		255	431	293	388	107	205
	(a)	Which is the la	argest number?	Circle your ans	swer.		
		255	431	293	388	107	205
							(1)
	(b)	Which is the e	ven number? C	ircle your answ	ver.		

		255	431	293	388	107	205
							(1)
	(c)	Use two of tl	ne numbers to I	make a correct	addition.		
			+	=	400		
							(1)
	(d)	Use two of t	he numbers to	make a correct	subtraction.		
				=	50		
							(1)
							(Total 4 marks)
07. H	lere ar	e the temper	atures in four p	laces at 7:00 a	n one morning		
•		erdeen –15.8					
		don –4.9					
	She	effield –7.6	°C				
	War	rwick –5.3	°C				
	(a)	Which place	was the warme				
			Answer				(1)

(b) What was the difference in temperature between Aberdeen and Warwick?

	Answer°C	(1)
(c)	At 4:00 pm the temperature in Sheffield was 1.7 °C higher than at 7:00 at What was the temperature in Sheffield at 4:00 pm? Answer°C	n. (1) (Total 3 marks)
(a)	Write down a decimal that is more than $\frac{7}{11}$ and less than $\frac{7}{9}$	(2)
(c)	Answer	(2)
	(a)	(c) At 4:00 pm the temperature in Sheffield was 1.7 °C higher than at 7:00 at What was the temperature in Sheffield at 4:00 pm? Answer°C (a) Work out 1.56 ÷ 0.4 Answer

***************************************								••••
	••••••							
	Ans	swer						(Total (
Q9. (a) Solve 5 <i>x</i>	- 2 < 6	D						
		••••••	••••••	•••••	•••••	•••••		
(b) List the w							< n ≤ 6	
	Ans	swer						
	Ans	swer						
Q10. The temperature w	Ans	wer	the sam	e time e	ach day			

Answer°C

(1)

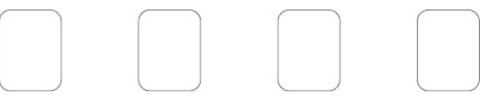
	How much colder was it on Thursday than on Wednesday?	(b)
. (1)	Answer°C	
	On Sunday, the temperature was 3°C lower than on Saturday. What was the temperature on Sunday?	(c)
(1) (Total 3 marks)	Answer°C	
(1)	Write 3.574 to 1 decimal place. Answer	Q11. (a)
	Put these decimals in order, starting with the smallest. 0.5 0.62 0.325	(b)
(1)	Answer,,	
	Circle the two values that are equivalent to 0.8	(c)
(2) (Total 4 marks)	8% $\frac{4}{5}$ 80% $\frac{8}{100}$ $\frac{1}{8}$	

Q12.Arrange these nu	mbers in order	of size sta	arting with t	he smallest.
You must show y	our working.			

	27%	0.207	56 200		
		Angwor			
		Answer,	, ,	(Tota	l 2 marks)
Q13. He	ere are four number o	cards.			
	6	2	1	7	
(a	a) Write the numbe	er 6217 in words.			
					(1)
(b	o) Write the numbe	er 6217 to the nearest	10.		
		Answer			(1)
(c	e) Use all four card	ds to show the smalles	st possible number		

1	Л	1
ı	1	
•	_	-,

(d) Use all **four** cards to show a number with a value as close to 4000 as possible.



(Total 4 marks)

Q14.Use a calculator to work out each of the following.

(a) 206 × 13

Answer(1)

(b) $945 \div 15$

Answer (1)

(c) 489 - (15 × 14)

Answer

(Total 3 marks)

Q15.The number of tickets sold for five football matches is shown.

Match	Tickets sold
1	43 378
2	19 872

3	20 417
4	43 685
5	32 473

(a)	At which match were most tickets sold?	
	Answer	(1)
(b)	At which match was the number of tickets sold closest to 20 000?	
	Answer	(2)
		(1)
(c)	3584 of the tickets sold for match 5 were not used.	
	How many tickets were used for match 5? Give your answer to the nearest thousand.	
	Answer	(0)
		(3) (Total 6 marks)