1	What are the common factors of these pairs of numbers?		
	24 and 36		
	20 and 30		
	28 and 45		
	Tip: List the factors for 24. Then list the have in common. Then move on to the	the factors for 36. Circle or highlight the factors they even the sectors and the sectors they be a sector of the	
2	Which number is the odd one out?		
	12, 30, 54, 42, 32, 48		
2	Can you explain why?	6.4 10	
3	Two numbers have common factors of 4 and 9. What could the numbers be?		
4		You are making fruit baskets. Basket 1 has a certain	
4	There are 49 apples and 56 pears.	number of apples and pears in it; Basket 2 is identical	
		to Basket 2 and so on.	
	They need to be put into baskets with an	How many baskets? 3 or 5? Why not 5?	
	equal number in each basket.		
		How many items of fruit respectively in each?	
	Jamil I think there will be		
	baskets with 8 pieces		
	of fruit in each		
	I think there will be		
	baskets with 7 pieces		
	of fruit in each		
	Who is correct?		
	Explain how you know.		
5	Tom has 2 pieces of string.	From one colution	
	One is 160cm long and the other is	Easy: one solution Medium: three solutions	
	200cm long.	Hard: at least five solutions	
	He cuts them into pieces of equal		
	length.		
	What are the possible lengths the string could be?		
6	Work out the headings for the Venn		
0	diagram.		
	4 12 18		
	28 48 42		
	Add in one more number to each section.		
	Can you think of a multiple of 6 and 8		
	that is a square number?		

Answers on the next page

1	What are the common fortune of the set	24 and 26
	What are the common factors of these pairs	24 and 36
	of numbers?	1, 2, 3, 4, 6, 12
	24 and 36	20 and 30
	20 and 30	1, 2, 5, 10
	28 and 45	-, -, -, -,
	20 und 15	28 and 45
	Tip: List the factors for 24. Then list the	apart from one, none
	factors for 36. Circle or highlight the factors	apart from one, none
	they have in common. Then move on to the	
	next pair.	
	Which number is the odd one out?	32 – all others are multiples of 3 (or 6)
	12, 30, 54, 42, 32, 48	I will not accept 30 because it is the only
	12, 50, 51, 12, 52, 10	multiple of 10. I won't accept this
	Can you explain why?	because the odd one out is based on all
	Can you explain wily?	others having something in common.
2	Two numbers have common factors of 4	
	and 9.	any multiple of 36, e.g.
		26 72 109
	What could the numbers be? There are 49 apples and 56 pears.	36, 72, 108
4	There are 45 apples and 50 pears.	Both numbers are are multiples of 7: 7 x 7 = 49
		$7 \times 7 = 49$ 7 x 8 = 56
	They need to be put into baskets with an	7 X 0 - 50
	equal number in each basket.	So, if you have 7 baskets, each basket has 7
	Jamil I think there will be	apples and 8 pears in it.
	baskets with 8 pieces of fruit in each	
	I think there will be	
	baskets with 7 pieces of fruit in each	
	Who is correct?	
	Explain how you know.	
5	Tom has 2 pieces of string.	I am delighted that Tom has 2 pieces of
		string. I mean, do YOU have two pieces of
	One is 160cm long and the other is	string??? Then he cuts them into equal
	200cm long.	pieces! And I thought I was sad knitting
	He auto them into sizes of sour	socks
	He cuts them into pieces of equal length.	
	tenBur	Answers: The highest common factor of 160
	What are the possible lengths the string	and 200 is 40. Therefore, any factor of 40 is
	could be?	a possible answer, i.e. 1 cm, 2 cm, 4 cm, 5 cm, 8 cm, 10 cm, 20 cm, 40 cm.
6	Work out the headings for the Venn	
	diagram.	Headings:
		Multiples of 4
	4 12 18	
		Multiples of 6
	28 48 42	
		144 is a multiple of 6
	Add in one more number to each section.	
, I	Can you think of a multiple of 6 and 8	and 8