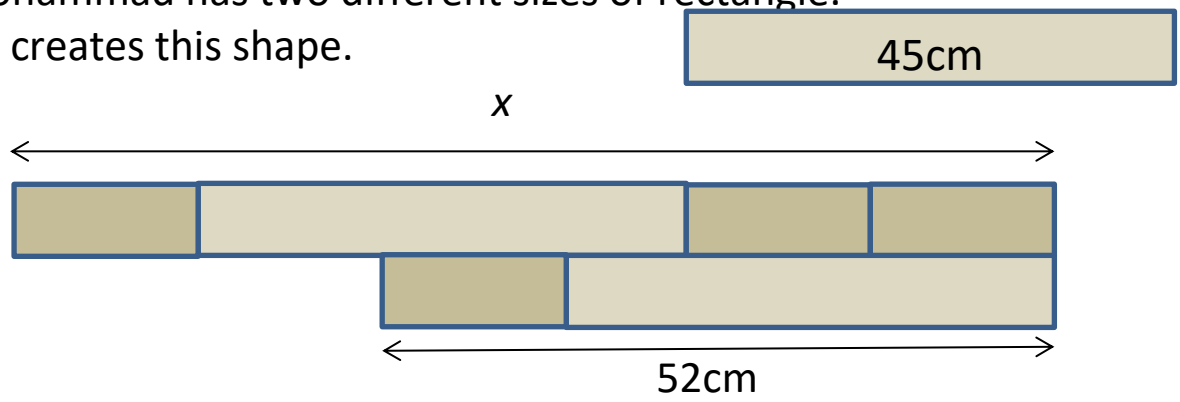
Arithmetic			**1**
1	927 + 400 =	**11**	7.89 + 4.459 =
2	630 – 6 =	**12**	78.32 – 8.032 =
3	456 ÷ 1 =	**13**	892 X 1,000 =
4	8 X 54 =	**14**	1.4 ÷ 10 =
5	87 + 200 =	**15**	329 X 6 =
6	65 + (5 X 3) =	**16**	987,652 – 6,999 =
7	= 3,678 + 458	**17**	183 ÷ 6 =
8	3,965 ÷ 2 =	**18**	4,555 X 3 =
9	56 + 5 + 3	**19**	$\frac{1}{2} + \frac{1}{2} =$
10	$\frac{5}{6} - \frac{1}{6} =$	**20**	34 – 0.45

Arithmetic				**2**
1	687 + 54 =	**11**	7.9 + 3.146 =	
2	18,976 – 4,891 =	**12**	67.9 – 3.33 =	
3	7,890 ÷ 4 =	**13**	100 X 8,801 =	
4	4 X 97 =	**14**	56.3 ÷ 100 =	
5	80% of 3,300 =	**15**	256 X 19 =	
6	79 - (24 ÷ 4) =	**16**	603,214 + 2,548 =	
7	= 11,900 – 909	**17**	657 X 94 =	
8	2,346 ÷ 5 =	**18**	60 X 80 =	
9	$\frac{5}{6}$ ÷ 8 =	**19**	$\frac{1}{7} + \frac{3}{9}$ =	
10	$\frac{39}{40} - \frac{12}{40}$ =	**20**	$\frac{3}{8}$ X 56 =	

Reasoning 2				
1	Circle the fractions, decimals and/or percentages that are equivalent.			
	0.4	**$\frac{2}{5}$**	**0.1**	**20%**
2	John has two £5 notes. He spends £7.55 on groceries, and donates £2.00 to charity. How much money does John have left?			
3.	Phillip arrives at work at 7:15am. He leaves at 15:49. How long was Phillip at work for?			
4	Fill in the missing boxes.			

	3		2
+	6	6	
		9	1

Arithmetic			**3**
1	3,678 + 10 =	**11**	3.1 + 4.436 =
2	95,401 – 89,901 =	**12**	9 – 5.391 =
3	1,917 ÷ 9 =	**13**	10 X 9,821 =
4	4.5 X 9 =	**14**	702 ÷ 1,000 =
5	25% X 2,400 =	**15**	30 X 90 =
6	3^2 + 11 =	**16**	546,901 + 22,205 =
7	= 9,000 – 198	**17**	501 X 49 =
8	4,689 ÷ 5 =	**18**	5.6 X 41 =
9	$\frac{4}{5}$ X 3 =	**19**	$\frac{1}{2} - \frac{2}{5}$ =
10	$\frac{1}{5} + \frac{1}{2} + \frac{1}{4}$ =	**20**	$\frac{7}{10}$ of 70 =

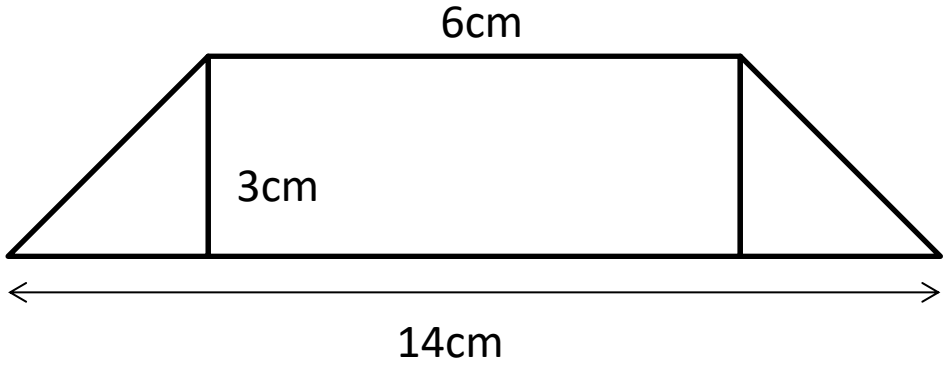
Reasoning 3		
1	Convert these improper fractions to mixed numbers.	
	$\frac{17}{10}$ =	**$\frac{13}{5}$ =**
2	Mohammad has two different sizes of rectangle. He creates this shape.  Calculate the length of *x*.	
3.	Convert these Roman numerals.	XIX =
	MMII =	MCMXCVII =
4.	A bag of sugar contains 1kg. Jim is baking. Afterwards, the bag contains 787g of sugar. How much sugar did Jim use during his baking?	

Arithmetic				**4**
1	45,678 +55,324 =	**11**	13.4 + 7.008 =	
2	55,567 – 9,904 =	**12**	21.9 – 1.899 =	
3	96 ÷ 8 =	**13**	1,000 X 3,248 =	
4	800 X 4 =	**14**	45,337 ÷ 1,000 =	
5	2% X 1,200 =	**15**	51 X 5 =	
6	12^2 - 11 =	**16**	456,901 + 9,004 =	
7	= 1,457 + 543	**17**	612 X 72 =	
8	4,812 ÷ 12 =	**18**	4 X 8 =	
9	$\frac{3}{5}$ X 3 =	**19**	$\frac{5}{8}$ ÷ 5 =	
10	$\frac{1}{6}$ + $\frac{2}{8}$ =	**20**	$\frac{2}{9}$ X 3 =	

Reasoning 4

1

Calculate the area of this shape.



2.	**Work out the value of *a*.**	3*a* = 21 *a* =
	2*a* + 9 = 23 *a* =	7*a* + 4 = 39 *a* =

3. Circle the number that is ten times greater than seven hundred and thirty-three.

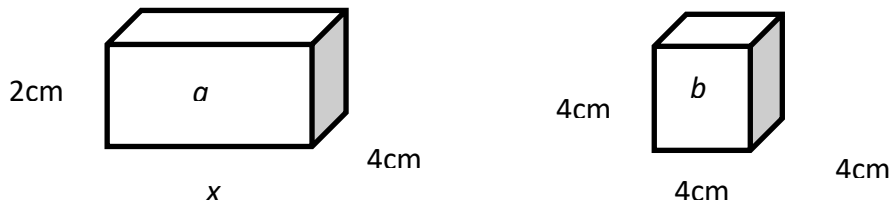
733	73.3	7,303	7,330	337

4. In December, the average temperature for Crewe was 5°C, and the average temperature for Ottawa was -10°C.
What is the difference in temperature?

Arithmetic			**5**
1	79,881 + 21 =	**11**	21 + 78.901 =
2	41,897 – 32,405 =	**12**	12.743 – 9.008 =
3	8,789 ÷ 5 =	**13**	100 X 4,567 =
4	300 X 900 =	**14**	8,763 ÷ 1,000 =
5	15% X 700 =	**15**	27 X 27 =
6	10^2 - 6 =	**16**	701,008 + 13,456 =
7	= 8,203 – 809	**17**	537 X 56 =
8	2,187 ÷ 6 =	**18**	5,792 ÷ 16 =
9	$\frac{3}{7}$ X 4 =	**19**	$\frac{1}{3}$ ÷ 3 =
10	$\frac{2}{3}$ - $\frac{2}{9}$ =	**20**	$\frac{3}{4}$ X 88 =

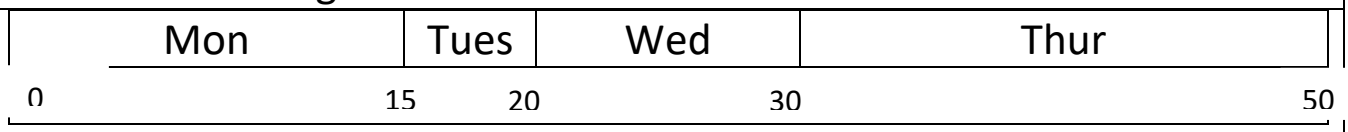
Reasoning 5

1 The volume of cuboid *a* and cube *b* is the same.



Calculate the length of x.

2.



Molly records how many bouquets of flowers she sells over four days.
How many flower bouquets did she sell on Tuesday and Wednesday?

3 A group of friends raise £63 during a bake sale.
They share the money equally.
They get £9 each.
How many friends are there in the group?

4 Write the missing number to make this multiplication correct.

8.4 X ☐ = 840