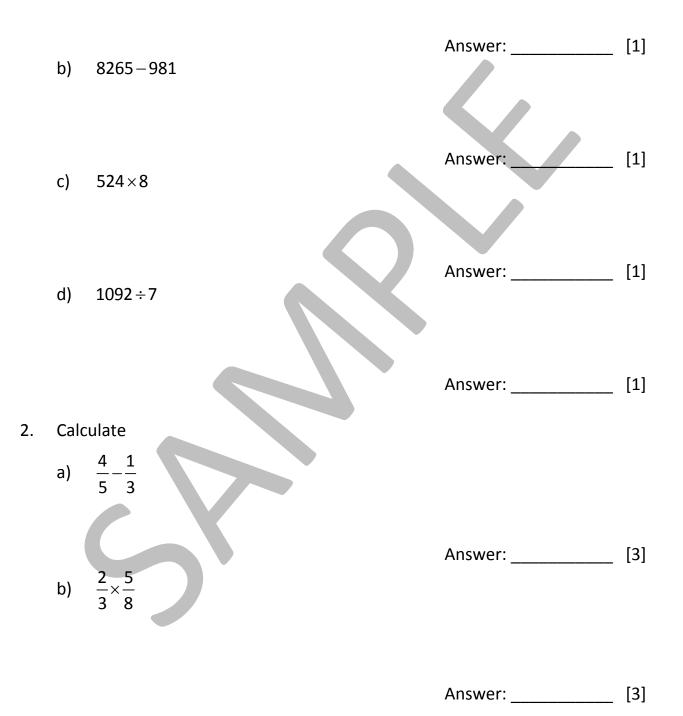


Do not use a calculator.

## 1. Work out:

a) 2782+469



- 3. Find the next two numbers in these sequences:
  - a) 3, 7, 11, 15, 19, ....., ....
  - b) 34, 29, 24, 19, ....., .....
  - c) 1, 3, 6, 10, 15, ....., ....

[3]

- 4. 732 Worcester Warriors fans meet at Sixways stadium to travel to Northampton to watch a rugby match. There are 14 coaches to transport them each of which can take 50 fans.
  - a) How many fans can travel in the coaches?

Answer:	[2]

b) The fans that cannot fit onto the coaches are transported by taxi. Each taxi can transport 4 fans. How many taxis are needed?

Answer: \_\_\_\_\_ [2]

5. Work out  $6 \times 14 - 13 \times 5$ 

Answer: \_\_\_\_\_ [2]

6. Freddie spends  $\frac{3}{4}$  of his pocket money each week. If he has £6 pocket money, how much money does he spend?

		Answer: £ [2	2]
7.	How many centimetres are there in 3.4 metres?		
		Answer: cm [2	1]
8.	Write 30 as a product of three prime numbers.		
		Answer: [3	3]
9.	There are two pine trees standing in the middle The larger tree, which is 30 metres high, has a sl The smaller tree has shadow that is only 12 m smaller tree?	hadow that is 20 metres long	g.

Answer: \_\_\_\_\_\_m [3]

10. A chicken in a butcher's shop weighs 3250 grams. What is this in kilograms?

Answer: \_\_\_\_\_kg [1]

11. Last night the temperature was  $-5^{\circ}$ C but today it is  $8^{\circ}$ C. By how much has the temperature gone up?

Answer: \_\_\_\_\_°C [1]  
12. Convert these to decimals:  
a) 84%  
Answer: \_\_\_\_\_ [1]  
b) 8%  
Answer: \_\_\_\_\_ [1]  
c) 
$$\frac{3}{5}$$
  
Answer: \_\_\_\_\_ [2]

13. An electrician charges £30 to visit a house, plus £25 for every hour he spends there. If he stays for h hours, write down a formula for the total cost, £C, of his visit.

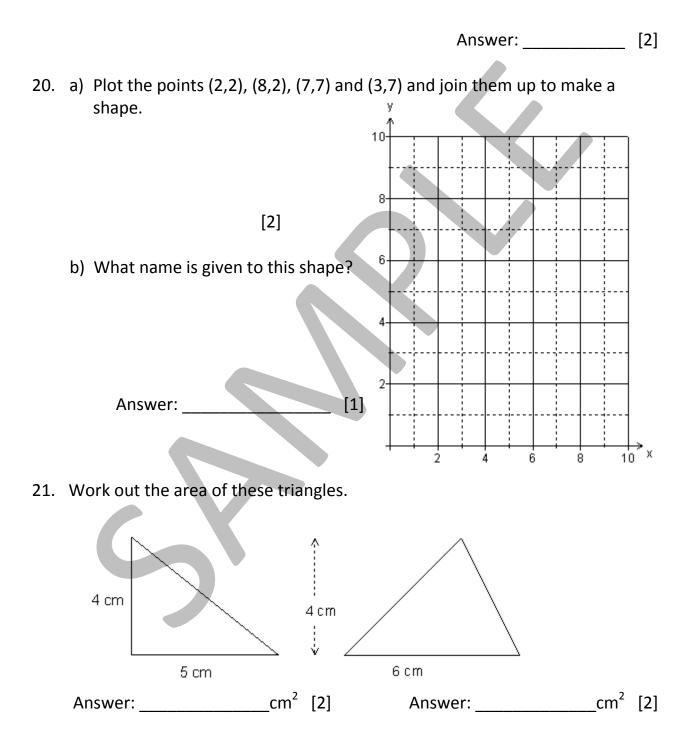
Answer: \_\_\_\_\_ [3]

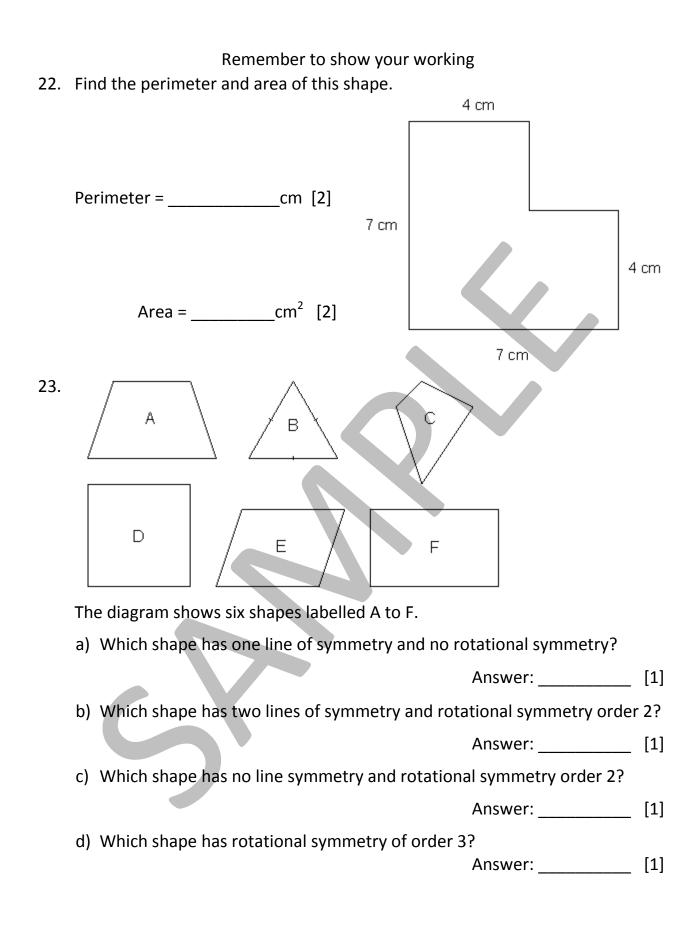
14. A train leaves Manchester Piccadilly station at 08:24 and arrives at London Euston at 12:03. How long did the journey take?

Answer: \_\_\_\_\_hours \_\_\_\_\_minutes [2]

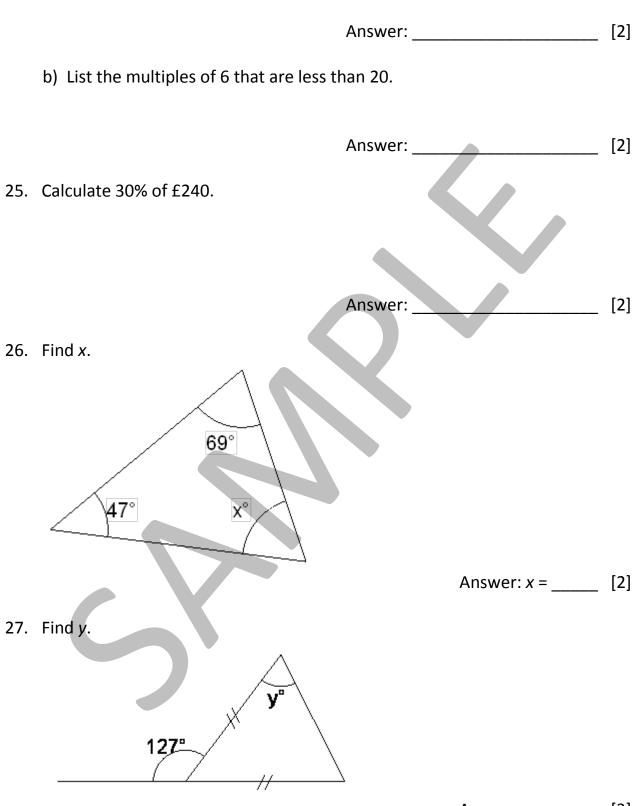
- 15. A particular fruit drink is made by mixing apple juice and orange juice in the ratio 5:2. How much apple juice is needed to make 35 litres of the fruit drink?
- Answer: [3] 16. I think of a number, subtract 4 and then multiply by 5 and the result is 25. What was the number I thought of? [2] Answer: The pie chart shows the different towns in which 20 boys at Warwick School 17. live. a) In which town did fewest boys live? Kenilworth Warwick [1] Answer: b) How many boys lived in Kenilworth? Henley Leamington [2] Answer: 216×53 18. Work out

Answer: \_\_\_\_\_ [2]





24. a) List the factors of 12.

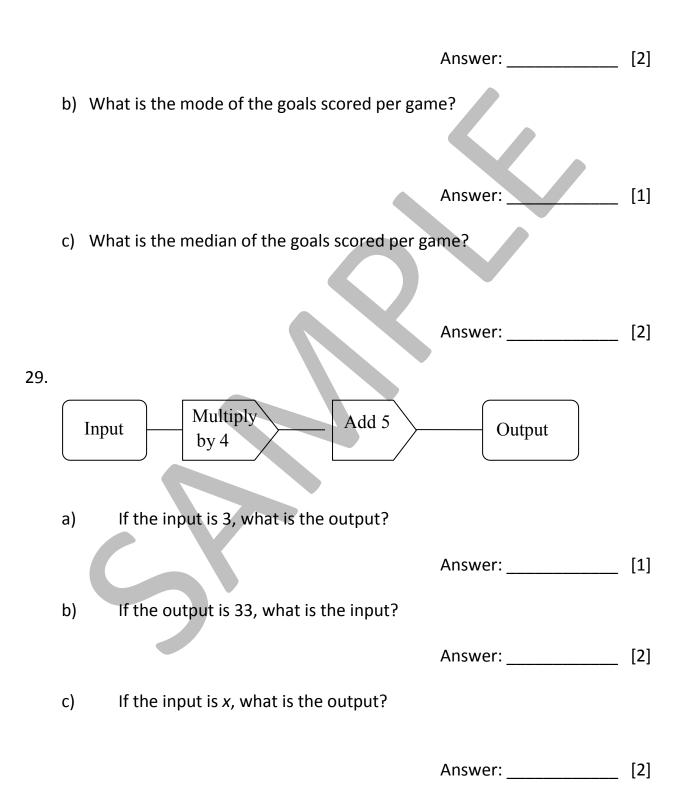


Answer: *y* = \_\_\_\_ [3]

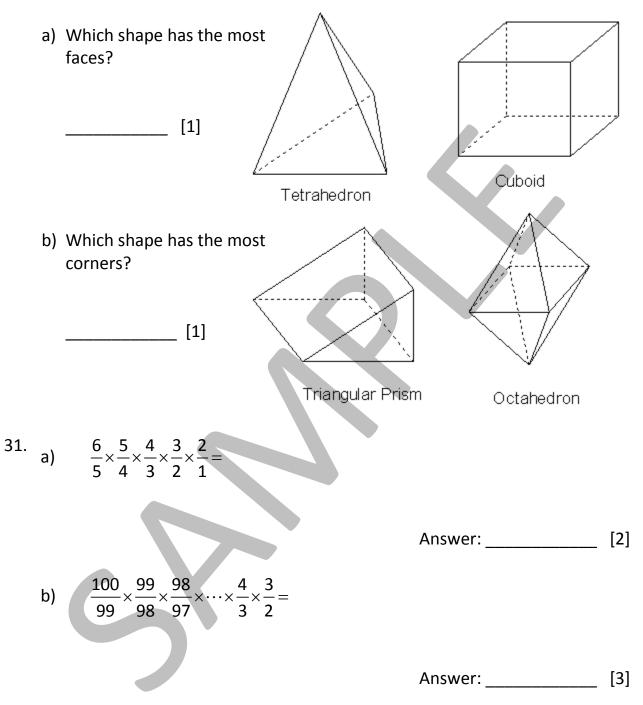
28. Here are the number of goals scored in eight matches by a hockey team:

1, 5, 2, 4, 1, 1, 0, 2

a) What is the mean (average) number of goals scored per game?



30. Here are drawings of four three-dimensional shapes.



32. a) What is the last digit in  $2013^2$ ?

END OF EXAMINATION Now go back, check your answers and				
		Answer:	_ [1]	
f)	What is the last digit in 2013 <sup>57</sup> ?			
		Answer:	[1]	
e)	What is the last digit in 2013 <sup>12</sup> ?	Answer:	[1]	
d)	What is the last digit in 2013 <sup>5</sup> ?	Answer:	_ [1]	
c)	What is the last digit in 2013 <sup>4</sup> ?	Answer:	_ [1]	
b)	What is the last digit in 2013 <sup>3</sup> ?	Answer:	[1]	

try any questions you may have left out.