

SUMMIT SATURDAY SCHOOL

ENTRANCE & SCHOLARSHIP EXAMINATION FOR 11+ CANDIDATES

SPECIMEN PAPER 1

MATHEMATICS

Time allowed: 60 minutes

Calculators may not be used

- Answer as many questions as you can.
- Write your answers in the spaces provided.
- Show any working in the spaces by the questions.
- If you cannot answer a question, go on to the next one.
- Use any spare time at the end to go back to any questions which you did not
- Complete and to check your work.

1. Find

(a) $549 + 217$

Answer:.....

(b) $601 - 283$

Answer:.....

(c) 725×64

Answer:.....

(d) $29208 \div 8$

Answer:.....**2. Calculate**

(a) $6.475 + 53.74$

Answer:.....

(b) $60.48 - 9.62$

Answer:.....

(c) 18.6×23

Answer:.....

(d) $16.98 \div 6$

Answer:.....

3. Mark bought 266 pens for his class. The pens came in boxes of 14. How many boxes did he buy?

Answer:.....

4. Mary collects stamps and has 268 in her collection. However, 49 are duplicates; so she decides to sell the duplicates and buy 27 new stamps. How many does she have in her collection now?

Answer:.....

5. What is the value of 9 in the number 7369324?

Answer:.....

6. Write 23056 in words

7. Arrange these numbers from smallest to largest

2.03

0.203

3.02

0.320

3.2

Answer:.....

8. Write these decimals as fractions

0.75	
0.2	
0.4	
0.25	
0.125	

9. Choose from the following numbers

11 27 8 16 15 21 36 7 64 13

(a) Multiples of 4:

Answer:.....

(b) Factors of 56:

Answer:.....

(c) Square numbers:

Answer:.....

(d) Cube numbers:

Answer:.....

(e) Prime numbers:

Answer:.....

10. Work out

(a) $\frac{1}{2} + \frac{2}{5}$

Answer:.....

(b) $\frac{3}{4} - \frac{2}{3}$

Answer:.....

(c) $\frac{5}{6} \times \frac{3}{10}$

Answer:.....

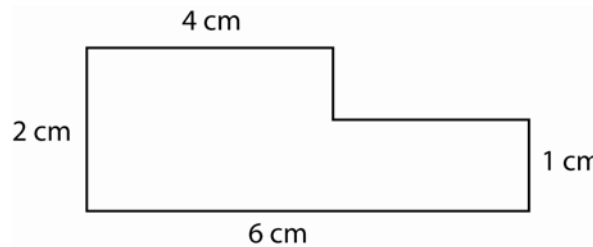
(d) $\frac{6}{10} \div \frac{3}{4}$

Answer:.....

11. Complete the following table for the times on a 12 hour clock and a 24 hour clock

12 Hour clock	24 hour clock
5:20am	
8:45pm	
5 minutes before 10pm	
	02:35
	17:50
	00:09

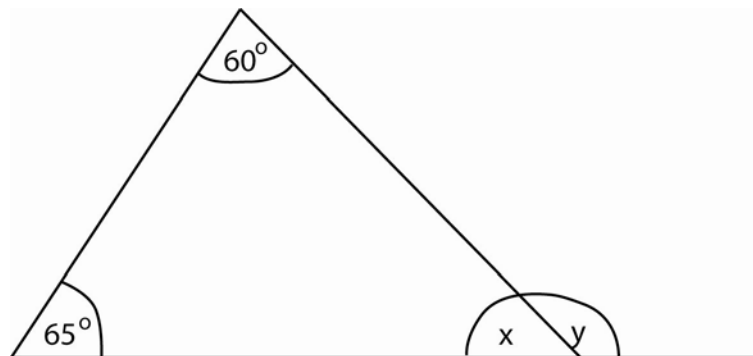
12. What is the perimeter and area of this shape?



Perimeter:.....

Area:.....

13.



Angle x = Angle y =

14. Tonight temperature is -3°C outside. Tomorrow night, the weatherman says it will be 5°C colder

(a) What will be the temperature tomorrow night?

Answer:.....

If the temperature at midday tomorrow is 7°C warmer than tonight:

(b) What will be the temperature at midday tomorrow?

Answer:.....

15. I roll an ordinary 6 sided dice, numbered 1 to 6

(a) What is the probability of rolling a 4?

Answer:.....

(b) What is the probability of rolling a multiple of 2?

Answer:.....

(c) What is the probability of rolling a prime number?

Answer:.....

16. Find mean, mode, median and range of the following set of numbers

3 7 16 12 7

Mean =

Answer:.....

Mode =

Answer:.....

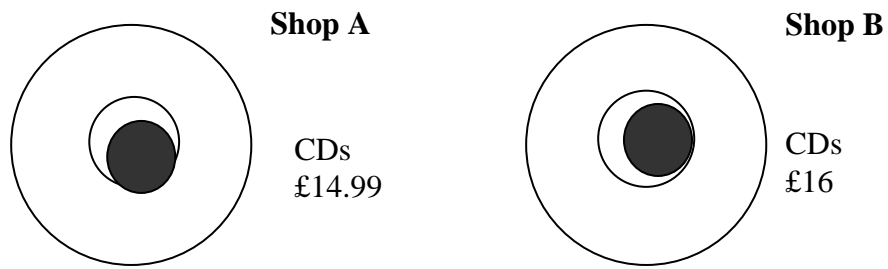
Median =

Answer:.....

Range =

Answer:.....

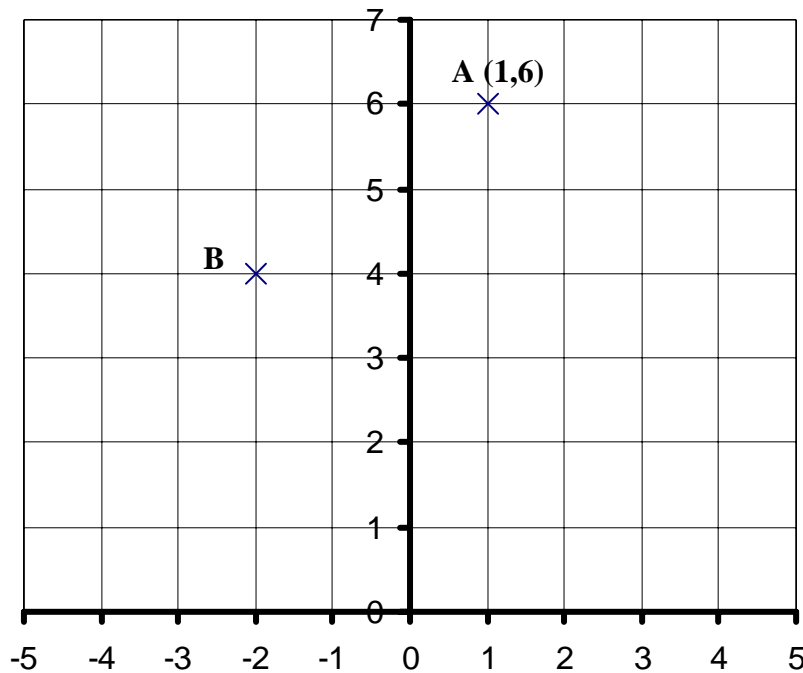
17.



In two sale shops, Shop A has a sign “£3 off all items”, in Shop B, there is a sign “Everything reduces by 30%”. In which shop are CDs cheaper and by how much?

Answer:.....

18.



Point A has co-ordinates (1,6)

What are the co-ordinates of point B?

Answer:.....

Plot point C (0,1)

Plot another point, D, so that when you join ABCD you have a square

19. The charge £C made by a caterer for arranging a birthday party for n people is given by the formulae

$$C = 4n + 25$$

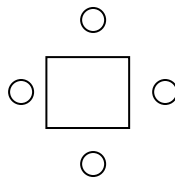
(a) What is the charge, in £, for a party of 20 people?

Answer:.....

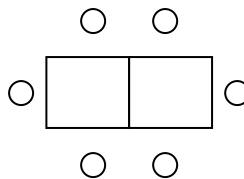
(b) What is the average cost per person for a party of 20 people?

Answer:.....

20. 4 people can sit around one table



6 people can sit around 2 tables



How many people can sit around 3 tables (draw a picture to answer this)

Fill in the boxes to find a formula:

$$\text{Seats} = \boxed{} \times \text{tables} + \boxed{}$$

How many can sit around 12 tables?

Answer:.....

END OF PAPER
