JAMES ALLEN'S GIRLS' SCHOOL

MATHEMATICS ENTRANCE EXAMINATION 11+ SAMPLE PAPER 2

CAN	DID	ATE	NUN	IBEF	₹:					

Time allowed: 45 minutes

Show all your working

Write your answers in the spaces provided.

Do not spend too long on any question. If you are finding a question difficult, move on to the next one.

NO CALCULATORS ALLOWED

5. Natalie buys 3 small bags of peanuts and pays with a £2 coin. She receives 80p change. How much does each bag cost?



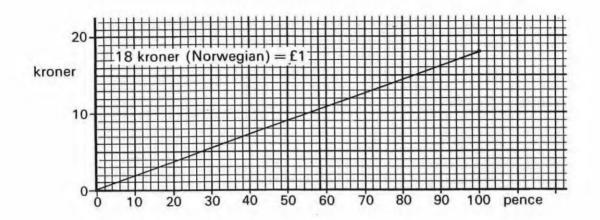
Cost:

- 6. Write down the next two numbers in each of these sequences:
- a) 30000, 3000, 300, 30, ____
- b) 3, 6, 12, 24, ____
- c) 1, 1, 2, 3, 5, 8, ____
- d) 1, 4, 9, 16, ____

7.	Find three prime numbers that add up to 30
	Ans:
3.	Two fifths of the children in a swimming pool are boys. There are 72 girls in the pool. How many boys are there?

Ans: __

9. The line graph below can be used to change pounds sterling into Norwegian kroner.



a) How many kroner would I get for 90p?

Ans:

b) How much are 12 kroner worth?

Ans:_____

c) Jo buys some sweets and a magazine that cost £5.10. How much is this in kroner?

Ans:

10. Gill's garden is 48 m long and 10 m wide and she wants to cover it with peat which comes in 60 kg sacks. 10 kg of peat covers an area of 20 m².

Work out the area of the garden:

Ans:_____

How many sacks of peat does Gill need for the whole garden?



Ans:

11. Calculate

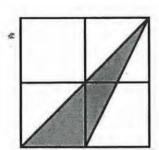
a)
$$\frac{2}{3} + \frac{5}{6}$$

Ans:____

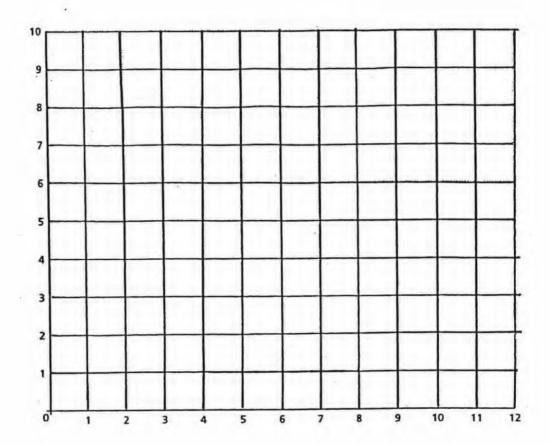
b)
$$\frac{5}{6} - \frac{3}{4}$$

Ans:_____

c) What fraction in the diagram below is shaded?



Ans:_____



The co-ordinates of the three corners of a rectangle are:

Plot these points on the axes above.

Join A to B and A to C to give 2 sides of the rectangle.

Mark corner D on your diagram.

Write down the co-ordinates of D

Ans:	

Draw all the lines of symmetry of the rectangle on your diagram.

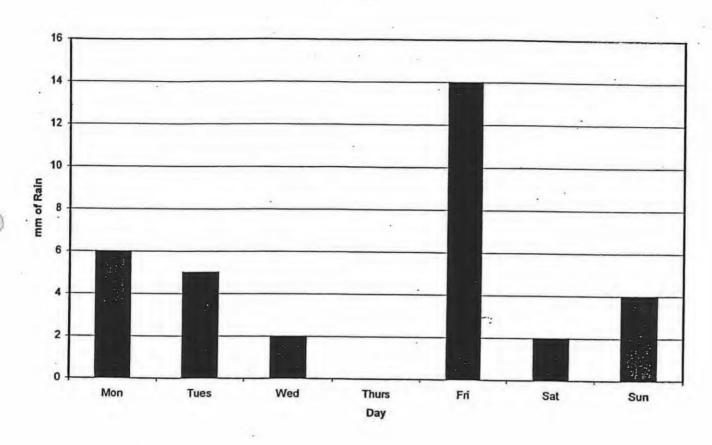
13. Sara starts her maths homework at 4.30 pm and she finishes it at 6.10 pm. During that time she watches 'Neighbours' for 25 minutes and she speaks to her friend Jean on the telephone for 20 minutes. How long is Sara actually working on her maths?



Ans: _____

14. How many 26p stamps can Antonia buy for £10 and how much change will she receive?

Ans: _____



i) What was the rainfall on Tuesday?

Ans:____

ii) How much more rain was there on Monday than Sunday?

Ans:_____

iii) Find the total rainfall for the week?

Ans:____

iv) What is the average daily rainfall?

Ans:

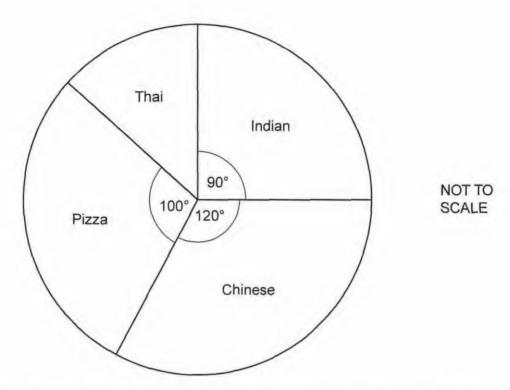
16. Pauline has 90p that she wants to share between 7 girls and 4 boys so that the girls each have twice as much as the boys. How much does each girl and each boy receive?

Girl:_____

Boy:____



17.



This pie chart represents the favourite takeaway foods of 180 students.

(a) Which takeaway food was the favourite of $\frac{1}{4}$ of these students?

Ans:_____

(b) What fraction of these students chose Chinese?

Ans:_____

(c) Work out the size of the angle for Thai.

Ans:_____

(d) How many of the 180 students chose Pizza?

Ans:_____

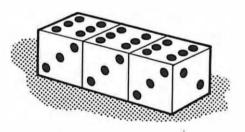


18. To encourage her to tidy her bedroom, Cathy is given 1p on the first day, 2p on the second day, 4p on the third day and so on, doubling the amount each day. How much has she been given after 8 days?



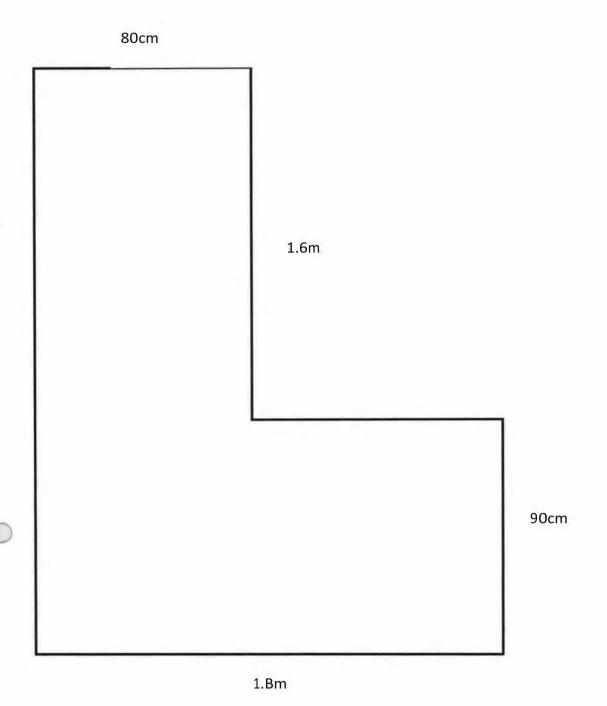
Ans: ______

19. The total of the opposite faces on a dice is always 7. Jack places three dice on a table as shown in the diagram. What is the total score of the faces that Jack cannot see?



Ans: _______

20a. Calculate the perimeter of this shape stating your units very carefully



Ans: __ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _

20b. How many square tiles measuring 20cm by 20cm would I need to buy in order to tile the area? Show clear stages of working.



Ans: -----