



**11 Plus**

**Paper [ 6 ]**

**Maths - Non Calculator**

**Total marks: [ 40 ]**

**Time allowed: 60 minutes**

You have 1 hour.

There are 40 marks available. Try to answer all the questions. Remember to show your working out.

Each question is worth one mark unless otherwise stated.

No calculators are allowed.

Full name \_\_\_\_\_

**Questions**

1. Ben has a flowerbed which is shaped exactly like a square. What is the size of one of the angles on his flowerbed?

2. Erisha has a five pound note, two one pound coins, three ten pence pieces and five two pence pieces. How much does she have altogether?

3. Complete the following table by placing the correct words into it from the list below (5 marks):

**Seven sides    Pentagon    Quadrilateral    Scalene    Angle**

Five sides			Triangle	
	Heptagon	Trapezium		Obtuse

4. Ranjit has a Maths book with 236 pages. How many pages is this to the nearest ten?

5. Solve the following:

a.  $192 - 111$

b.  $99 \div 22$

c.  $8967 + 4256$

d.  $13 \times 25$

e.  $3 + (2 \times 5) - 7$

6. Amaya cuts her birthday cake into twelve equal slices. She gives one third to Caleb, and one quarter to Rebecca. How many slices does Amaya have left? (2 marks)

7. Ed has a ten pound note. He spends £6.57. How much does he have left?

8. Which of the following numbers are prime numbers? (2 marks)

3    47    9    22    63    58

9. Here are the scores of seven matches played by Wincheap United. What was their mean score?

4    5    4    8    5    3    6

10. Blueberry smoothie contains 20% protein. If the bottle measures 200ml, how much protein is in the smoothie?

11. Here is a bus timetable. Answer the questions that follow (5 marks)

Plant Street	0800	0820	0840	0910
Cabbage Road	0803	0823	0843	0913
Carrot Lane	0810	0830	0850	0920
Beetroot Close	0843	0903	0923	0953

- How long does it take for the bus to go from Plant Street to Beetroot Close?
- Claire wants to get to Carrot Lane at 0828. Which bus should she catch from Cabbage Road?
- Alan arrives at Cabbage Road at 0825. When is the next bus to Beetroot Close?
- How long does the bus take to go from Carrot Lane to Beetroot Close?
- Mark needs to get to work at Carrot Lane by 0900. Which bus should he catch from Plant Street?

12. In Helsinki the average temperature is  $-10^{\circ}$  in December. In London it is  $2^{\circ}$ . What is the difference between the temperatures?

13. Solve the following:

- $-2 - -1$
- $36 + (-9)$
- $-4 - -87$
- $98 \times (-2)$

e.  $8 \div (-4)$

14. Nils thinks of a number. He multiplies it by four, adds six and then divides by two. His answer is 231. What number was he thinking of? (2 marks)

15. A leaking pipe is dripping water at a rate of 300ml per minute. How much water will drip out in two hours? Give your answer in litres. (2 marks)

16. Express this fraction in its simplest form:

$$\frac{36}{360}$$

17. What is 0.5 as a percentage?

18. Which of the following is likely to be the weight of a can of chickpeas?

100kg

5g

350g

2kg

19. What is the square root of 64?

20. How many metres are in 4.5 kilometres?

**Answers**1.  $90^\circ$ 

2. £7.40

3.

Five sides	Seven sides	Quadrilateral	Triangle	Angle
Pentagon	Heptagon	Trapezium	Scalene	Obtuse

4. 240

5. a. 81      b. 4.5    c. 13223      d. 325      e. 6

6. Five slices (give one mark for working out either of the other two numbers: four and three)

7. £3.43

8. 3, 47

9. 5

10. 40ml

11. a. 43 mins    b. 0823      c. 0843      d. 33 mins    e. 0840

12.  $12^\circ$ 

13. a. -1      b. 27    c. 83    d. -196      e. -2

14. 114 (give one mark for any of the following numbers: 456, 462)

15. 36 litres (1 mark for 36000)

16.  $\frac{1}{10}$ 

17. 50%

18. 350g

19. 8

20. 4500