

Paper A. 2016

# Maths Paper

## 11+

Name .....

Candidate Number .....

Seat Number.....

**Please put your name in the space provided above.**

**This maths paper contains 33 questions, which you have 40 minutes to complete.**

**The paper is out of 40 marks in total.**

**Write your answers clearly on the paper and make sure any mistakes are erased.**

**You can jot any working out on this test or extra rough paper.**

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Q1. Calculate  $14014 \div 7$ .

**Answer** = .....

Q2. What is  $53 \times 29$  ?

**Answer** = .....

Q3. What is  $6749 - 862$  ?

**Answer** = .....

Q4. What is  $3.71 + 1.5$  ?

**Answer** = .....

Q5. What is  $\frac{3}{5}$  of 300 ?

**Answer** = .....

Q6. What is a  $\frac{1}{4}$  of a  $\frac{1}{2}$  of 80 ?

**Answer** = .....

Q7. Write 3 million and seventy four as a number.

**Answer** = .....

Q8. The following are temperatures recorded in the first week of January in degrees centigrade:

**1, 2, 5, 0, -1, 1, 3**

a) What is the median?

**Answer** = .....

b) What is the range?

**Answer** = .....

**Q9.** I think of a number. I halve it, and then add 11. The answer is 29.  
What number did I start with?

**Answer =** .....

**Q10.** What is the product of the sum of 3 and 8, and the difference between 4 and 6?

**Answer =** .....

**Q11.** What is the angle between the two hands of a clock at 5 o'clock?

**Answer =** ..... °

**Q12.** If  $5^3 = 5 \times 5 \times 5 = 125$ , what is  $3^3$ ?

**Answer =** .....

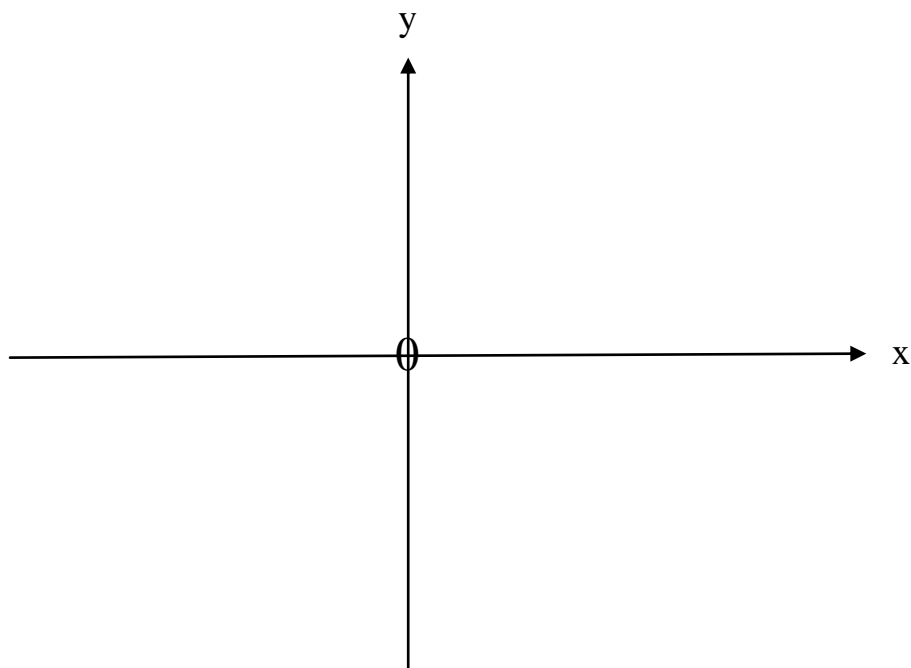
**Q13.** Find the number half way between -10 and 30.

**Answer =** .....

**Q14.** The train takes 2 hours and 35 minutes to travel between Aynse and Darmsley. If the train arrives at its destination at 4.50 p.m., what time did it set off?

**Answer =** .....

Q15.



a) Three corners of a rectangle are located at the points  $(4,3)$ ,  $(0,3)$  and  $(0,-1)$ .  
What are the co-ordinates of the fourth point?

**Answer** = .....

b) Sketch the rectangle if it were reflected in the  $y$  - axis and write in the co-ordinates of the new rectangle on the graph.

Q16. Two whole numbers are between 8 and 16.

They add up to 23.

They multiply together to make 126. What are the numbers?

**Answer** = .....

Q17. Round the following numbers to the nearest 10:

a) 549 .....

b) 34781 .....

c) 8956 .....

**Q18.** Samir is 1m tall, Brian is 1.2m tall and Molly is 1.4m tall.

Maryam joins them, and the average height of the group goes down by 10cm. How tall is Maryam?

**Answer =** ..... **cm**

**Q19.** Tom has the numbers 1, 2 and 3. How many different three digit numbers can he make with them?

**Answer =** .....

**Q20.** Mr. Smith has a long pole that he needs to divide up into 8 equal parts. It takes 6 minutes to cut through the pole each time. How long will it take Mr. Smith to complete the job?

**Answer =** ..... **minutes**

**Q21.** Qais drives for 4 hours at an average speed of 30 km/h. Faris does the same journey but drives at an average speed of 40 km/h. How much earlier did Qais leave if they arrived at their destination at the same time?

**Answer =** ..... **minutes**

**Q22.** Given that  $2468 \times 72 = 177696$

a) What is 177696 divided by 24.68?

**Answer =** .....

b) What is  $246.8 \times 7.2$ ?

**Answer =** .....

**Q23.** Billy has 56 marbles and wants to share them with his friend. Billy is happy to give two marbles to his friend, every time he counts out five marbles for himself.

How many marbles does Billy give away?

**Answer** = .....

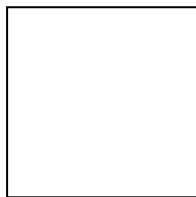
**Q24 a)** What is the first square number greater than 200?

**Answer** = .....

**b)** What is the highest multiple of 30 less than 200?

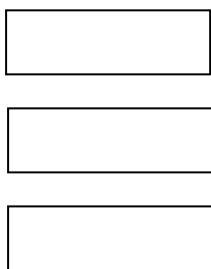
**Answer** = .....

**Q25.**



The square has an area of 81 cm<sup>2</sup>.

It is then divided up into three equal rectangles as shown:



What is the perimeter of one of the rectangles?

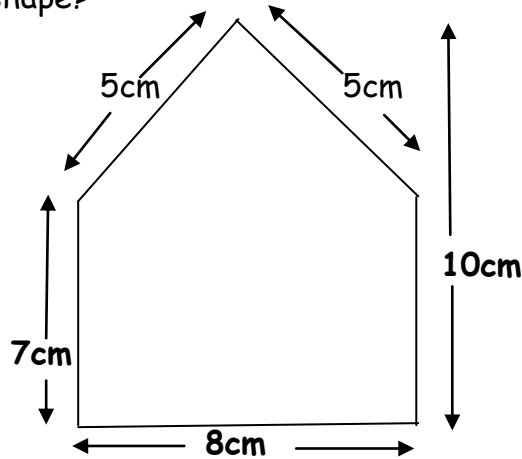
**Answer** = ..... cm

**Q26.** Fran purchased a coat for £81 in a sale. The coat had been reduced by 10%. What was the original price of the coat before the sale?

**Answer** = £ .....

Q27. What is the area of the shape?

Not drawn to scale.



Answer = ..... cm<sup>2</sup>

Q28. Mr. Singh wishes to paint his fence. It is 11m long and 2m high.  
On the paint tin, it states that one tin of paint is sufficient to cover 4m<sup>2</sup> of fencing.  
How many tins should Mr. Singh purchase?

Answer = .....

Q29. Mrs. Dandy has £50. She gives 10% to charity, and then spends a fifth of what she has left on presents.  
She pays a gas bill of £12 and then has her hair cut for £4.  
Mrs Dandy then changes all the remaining money into 20p pieces.  
How many coins does she receive?

Answer = .....

Q30. Terry has a bag of mixed marbles. 5 green, 7 blue and 8 red.  
A friend arrives and wishes to see one of each colour.  
Without looking inside the bag, how many marbles must Terry take out in order to guarantee that at least one of each colour can be seen?

Answer = .....

**Q31.** Samantha scored 40 out of 50 in a maths test in early 2016. Her father said that he would give her a prize if she increased her result in the next test.

The next exam was out of 70 questions. What is the lowest mark (a whole number) that would ensure Samantha a higher percentage than previously?

**Answer** = .....

**Q32.** 3 rolls and 2 drinks cost £1.90  
2 rolls and 2 drinks costs £1.40

a) What is the price of one roll?

**Answer** = ..... **p**

b) What is the price of one drink?

**Answer** = ..... **p**

**Q33.** I am a shape. I have four sides. My diagonals cross at right-angles. I have two pairs of sides that are the same length. I have one line of symmetry. What am I?

**Answer** = .....

END OF TEST /40