

Paper A. 2014.

Maths Paper

11+

Name:.....

Candidate Number.....

Seat Number.....

This paper has 50 questions, and you have 40 minutes to complete the test.

Read the questions carefully.

If you cannot answer a question, do not waste time on it. Move on to the next question and come back if you have time later.

Answers must be entered on the paper.

You may do any working out on this test paper, or on the rough paper supplied.

1. What fraction of a kilometre is 425m?

Answer: _____

2. From the picture below, what is the ratio of knives to forks?



Answer: _____

3. What is the greatest 4-digit number that can be made with three different digits?

Answer: _____

4. What is $5 - 9$?

Answer: _____

5. Express $\frac{5}{100}$ as decimal.

Answer: _____

6. Calculate: 36×25

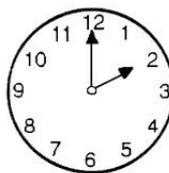
Answer: _____

7. True or False?

Every multiple of a number is greater than or equal to that number.

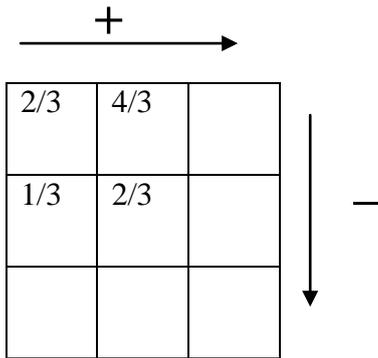
Answer: _____

8. What is the acute angle measured between the hands of the clock shown below?

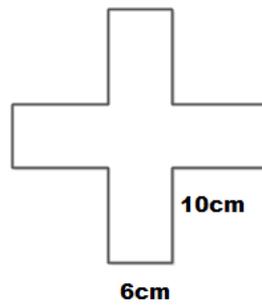


Answer: _____^o

9-13. Complete the addition-subtraction box with the results:



14. What is the area of this regular shape?



Answer: _____ cm²

15. Write the expression for 9 subtracted from p

Answer: _____

16. Find the product of the following, by rearranging the numbers:

$$2 \times 1459 \times 50$$

Answer: _____

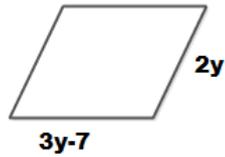
17. Round the following decimal to the nearest tenth: 17.097

Answer: _____

18. Write in digits: Two million, seven thousand and thirty four and 4 hundredths.

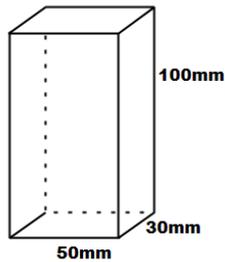
Answer: _____

19. What is the perimeter of the parallelogram shown below:



Answer: _____

20. What is the capacity of this carton in litres?



Answer: _____

21. Which two of these numbers have the same place values for 6?

Ring your answers.

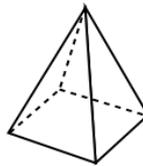
100.61

1764.16

621.9

1860.96

22. Look at the shape and fill in the blank spaces below:

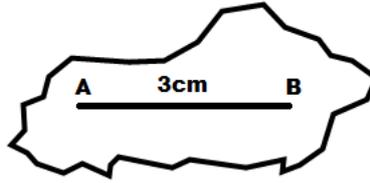


It has ____ edges and ____ faces.

23. What is 44.8 divided by 70?

Answer: _____

24. In this map the distance is drawn to a scale of 1:1,500,000. What is the actual distance between points A and B on this map in km?



Answer: _____ km

25. Kris was born on February 29th, 2000. How many of his actual birthdays have fallen on 29th February (not counting his date of birth)?

Answer: _____

26. The difference of two mystery numbers is 1 and the sum of their squares is 25. What is the product of the two mystery numbers?

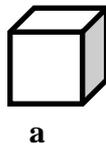
Answer: _____

27. Look at the picture below. What is the original price of the bag before discount?



Answer: _____

28. What is the surface area of this cube of side 'a'?



Answer: _____

29. There are three consecutive odd numbers. The sum of the first two numbers is 5 more than the next number. What is the third odd number?

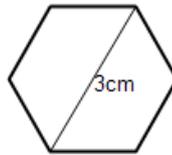
Answer: _____

30. Complete the series:

4 10 28 82 ?

Answer: _____

31. What is the perimeter of this regular hexagon?

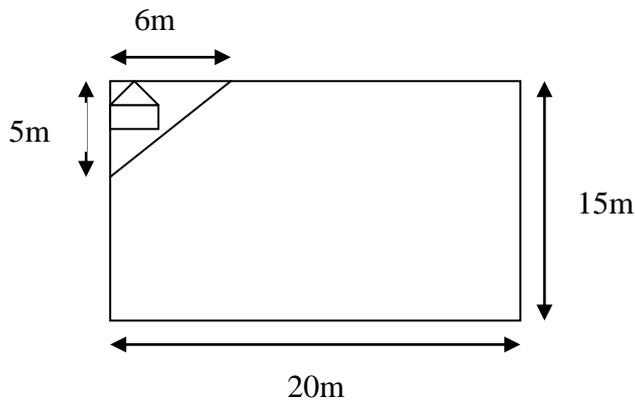


Answer: _____ cm

32. What percent of 20 is 30?

Answer: _____%

33. Old McDonald, the farmer, has built a house in a triangular corner plot of his farm. What area of the farm is still available for his animals to roam?



Answer: _____ m²

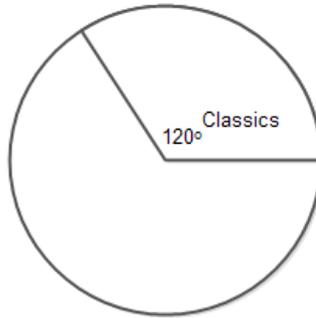
34. It is -7 degrees outside and the temperature decreases by 5 degrees. What is the new temperature?

Answer: _____ °

35. Jennifer is making fruit salad. She uses strawberries and blackberries in the ratio 3:9. Altogether, she uses 81 blackberries. Kim decides to make the same salad, using the same ratio, but with only 27 blackberries. How many strawberries do Jennifer and Kim use in total?

Answer: _____

36. A survey conducted by a library shows that 20 children liked to read classics. The rest of them liked to read adventure series or comics. How many children liked to read adventure series or comics?



Answer: _____

37. Ben is stacking boxes of height 12cm next to boxes of height 18cm. What is the lowest height at which the two stacks will be the same height?

Answer: _____ cm

38. Express $\frac{3}{8}$ as a decimal.

Answer: _____

39. Building A is 50 feet tall while building B is 20 metres high. Which building is taller?

Answer: _____

40. A town contains 5410 houses. Another town contains 16100 houses. How many houses in total are in the two towns? Choose the best estimate.

a. 1200 b. 11000 c. 15000 d. 21000 e. 410

Answer: _____

41. Henry started off his morning exercises for 5 minutes in January. He increased to 7 minutes in February, 11 minutes in March, 17 minutes in April, 25 minutes in May. If this pattern continues, for how many minutes does he exercise in the month of July?

Answer: _____

42. John purchased a 4-night boat holiday in February 2013. His children opted for a 4-berth boat. What was the price, rounded to the nearest hundred pounds?

Holidays starting within the following periods	Boat Size	3 Night price	4 Night price	5 Night price	6 Night price	7 Night price
From 01-10-2012 To 31-10-2012	4 Berth	£454.50	£524.50	£594.50	£664.50	£699.00
	6 Berth	£519.50	£599.25	£679.50	£759.50	£799.00
From 01-11-2012 To 19-12-2012	4 Berth	£351.00	£405.00	£459.00	£513.00	£540.00
	6 Berth	£468.00	£540.00	£612.00	£684.00	£720.00
From 20-12-2012 To 31-12-2012	4 Berth	£519.50	£599.50	£679.50	£759.00	£799.00
	6 Berth	£584.50	£674.50	£764.50	£854.00	£899.00
From 01-01-2013 To 28-03-2013	4 Berth	£354.50	£408.50	£463.50	£517.50	£545.00
	6 Berth	£451.50	£521.50	£590.50	£660.50	£695.00

Answer: £ _____

43. What is the next term in the series?

6 3 1.5 0.75 _____

Answer: _____

44. Karen boarded the 09:30 train from Cheerborough to Merry Village. How much earlier, in hours and minutes, would she have reached Merry Village if she had taken the 06:30 service instead?

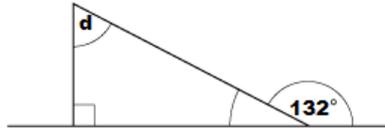
Train schedule			
Smile Town	02:45	05:45	16:00
Happy Valley	04:00	07:00	17:15
Danceville	05:45	08:45	19:00
Cheerborough	06:30	09:30	19:45
Singwood	07:00	10:00	20:15
Joyton	08:30	11:30	21:45
Springville	09:15	12:15	22:30
Merry Village	10:30	13:45	00:00

Answer: _____

45. Tom buys 3 identical pens and receives 53p change from £5.00. How much did each pen cost?

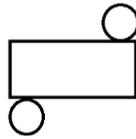
Answer: £ _____

46. What is the value of angle 'd' in this figure?



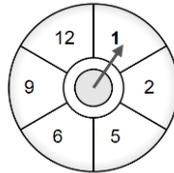
Answer: _____ °

47. What shape can this net make?



Answer: _____

48. What is the probability that the spinner will land on a multiple of 2?



Answer: _____

49. A corner shop recorded the number of customers who visited the shop each day for a week. What is the range?

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
102	94	58	67	134	112	89

Answer: _____

50. Harry is in an ice-cream shop that offers a scoop of strawberry, vanilla or chocolate flavour. He can choose from toffee, butterscotch or cherry sauce. He also has a choice of sprinkles or flakes on the top. Harry wants an ice-cream with sauce and a topping. How many different combinations can Harry choose from?

Answer: _____