

Maths paper 4.

**INDEPENDANT SCHOOL EXAM
11 + EXAM
PRACTICE PAPERS
EXAM PAPERS
20 QUESTIONS**

Includes 10 Verbal reasoning, 5 Maths and 5 Non-verbal reasoning papers.
Just like taking the real exam. Answer sheets are included along with all
the correct answers.

PACK 1.

This Maths paper contains 50 questions.
You have 50 minutes to complete the test.
Mark all answers clearly on the answer sheet

Basic Arithmetic

1. What is the number of days in a week multiplied by the number of days in a weekend?
2. Write this number as a word 5121
3. Work out the value for x if $x + 7 = 21$
4. If the tallest boy is 138cm tall and the shortest is 121cm what is the range in height?
5. What is $41 \times 12 \times 3 \times 0$

Algebra

Give your answer as a letter in each of the following: -

6. $A = 11$ $B = 13$ $C = 12$ $D = 7$ $E = 32$
What is $E - C - D$?
7. If $A = 4$ $B = 9$ $C = 16$ $D = 2$ $E = 8$
What is $C \times D \div A$?
8. If $A = 9$ $B = 7$ $C = 3$ $D = 2$ $E = 11$
What is $(A + C + D) \div D$?
9. If $A = 8$ $B = 6$ $C = 48$ $D = 21$ $E = 3$
What is $E(C/A) + E$?
10. If $A = 28$ $B = 8$ $C = 7$ $D = 32$ $E = 4$
What is $B \times C + E - A$?

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Fractions

11. What is $\frac{2}{3} + \frac{1}{4}$?
12. If $\frac{2}{5}$ of the number of cars sold are red and the rest are blue, how many cars are sold in total if there are 16 red cars sold?
13. When I was $\frac{1}{4}$ of the way home I had walked 240 metres. How much further did I have to walk?
14. The new stereo was in the sale and the ticket said there would be $\frac{1}{3}$ taken off the price at the till. If the ticket says £45 how much would be taken off when I got to the till?
15. Which is larger $\frac{2}{3}$ or $\frac{6}{8}$?

Percentages

16. If I save 80% of my money each week and I get £2 pocket money a week, how much would I have after 3 weeks?
17. 40% of the class went on a trip to the zoo. If there are 40 students in the class how many students went on the trip?
18. When I got my photos printed 25% of them were too dark. If I took 160 photos how many were light enough to see?
19. If 20% of the sweets in the bag are sour and there are 30 sour sweets, how many sweets will I have left if I give all the sour ones to my brother?
20. The temperature today is 15% hotter than yesterday. If yesterday it was 20 degrees how hot is it today?

Number Sequences

21. 6 12 18 36 42 (?)
22. 7 4 12 9 17 14 (?)
23. 3 12 20 27 33 38 42 (?)
24. 98 91 86 79 74 67 62 (?)
25. 16 32 8 16 4 8 2 (?)

Measurement s

26. Write 4589cm in metres
27. If I run round an athletics track 7 times and the track is 400 metres long how many metres will I have run?
28. If a jug can hold 3 litres of water, how many 200ml cups are required to fill the jug to the brim?
29. If a pool is 25 metres long, 7 metres wide and 3 metres deep, how much water can it hold in metres cubed?
30. I was building a tower with blocks. Each block was a cube with a side measuring 5cm. If I have 38 blocks how tall could I make the tower?

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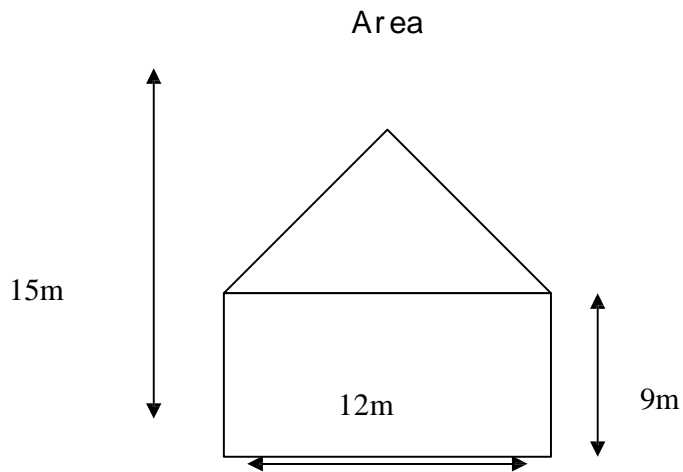
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Time

Look at the timetable below and then answer the questions that follow:-

YOUTH HIKE CONTEST – ALL CONTESTANTS START AT 7.00am				
	Checkpoint 1	Checkpoint 2	Checkpoint 3	Finish
Chris	8.30	9.14	9.50	11.12
Charlie	7.45	8.30	9.29	10.58
Mike	9.00	9.50	10.29	11.40
Adam	7.30	8.35	9.15	11.05

31. If all the contestants started at 7am who was fastest to reach the first checkpoint?
32. Which contestant got from Checkpoint 1 to Checkpoint 2 in the fastest time?
33. How many contestants completed the full course in under 4 hours 15 minutes (remember they all started at 7.00am)?
34. How long did the slowest contestant take to finish the course?
35. How much faster did the quickest person finish the course compared to the slowest one?



This is the sketch of a plan for a new house. Use the measurements to answer the following questions.

36. How high is the measurement for the roof?

37. If one pot of paint can cover 12m^2 how many pots will be needed to paint the wall that you can see (not including the roof)

38. What is the area of the roof? (Triangle area is measure $\frac{1}{2}$ base x height)

39. If the length of the house was 13 metres what would the floor area of the ground floor be?

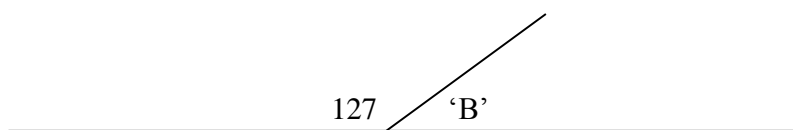
40. Knowing that the length of the house was 13 metres how many full pots of paint would I need to buy to paint the entire house (not including the roof) if one pot could cover 12m^2 .

Decimals

41. If the average height of my class is 1.34m and I am 1.26 metres, how many centimetres shorter than average am I?
42. If I buy two chocolate bars at 80p, a drink at 67p and also a magazine at £ 1.43 how much change do I get from £ 5
43. The temperatures in Greece over four days were 28.7 degrees, 29.3 degrees, 30.1 degrees and 29.7 degrees. What was the average temperature correct to one decimal place?
44. What is 9.37×2.36 correct to two decimal places?
45. In a class the reading ages were 6.7, 5.4, 9.8, 10.1, 12.3 and 5.1. What was the range of reading age?

Angles

46. If two angles on a triangle add up to 134 what must the final angle be?
47. How many right angles are there in a rhombus?
48. On the diagram below what is the angle 'B'?



49. If I walk north, turn right 90 degrees, walk forward then turn right 90 degrees which way will I be facing?
50. What is the name for a triangle where all the angles are equal?

Isosceles, equilateral, equilateral, isosceles, equilateral

Maths paper 4 Answer sheet.

1	2
3	4
5	6
7	8
9	10
11	12
13	14
15	16
17	18
19	20
21	22
23	24

Maths paper 4 Answer sheet.

25	26
27	28
29	30
31	32
33	34
35	36
37	38
39	40
41	42
43	44
45	46
47	48
49	50

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