

Maths paper 3

**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.

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Maths paper 3

Basic Arithmetic

1. What is $37281 - 28181$
2. Write this number as a word 3811
3. $415925 + 27381$
4. 39×28
5. $456 \div 4$

Algebra

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

6. $A = 2$ $B = 4$ $C = 15$ $D = 30$ $E = 1$
What is $B \times C \div D - E$?
7. If $A = 63$ $B = 38$ $C = 12$ $D = 7$ $E = 17$
What is $A \div D + C + E$?
8. If $A = 3$ $B = 7$ $C = 24$ $D = 25$ $E = 6$
What is $B \times A + (C \div E)$?
9. If $A = 7$ $B = 8$ $C = 4$ $D = 3$ $E = 5$
What is $(D + E + C) \div C$?
10. If $A = 62$ $B = 7$ $C = 42$ $D = 7$ $E = 8$
What is $E \times D + (C \div B)$?

Fractions

11. What is $\frac{2}{9} + \frac{3}{18} + \frac{1}{3}$?
12. If $\frac{1}{4}$ rd of students get free school meals, how many students will this be if there are 368 students in the school?
13. What is $\frac{2}{9} \div \frac{3}{12}$?
14. If Doris is $\frac{1}{3}$ the age of her grandmother and her grandmother was 80 last year, how old is Doris?
15. What is $\frac{4}{7} - \frac{2}{8}$ in its lowest form?

Percentages

16. What is 14% of 679
17. If there are 48 double decker buses in a depot and 24 single deckers, what percentage of the buses are single decker?
18. A store has a sale on, and is says if I buy two similar items I get 25% off the cost of the second item. How much will it cost me (to the nearest penny) if one item is 18.50?
19. If my weekly pocket money goes up by 50% each year, how much will I be getting a week after 3 years if I start on £1 a week?
20. All items in England have 17.5% tax added to them before they are sold. How much would an item be if it is £55 before the tax is added?

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Number Sequences

21. 18 25 32 39 46 (?)

22. 63 55 48 42 37 33 (?)

23. 12 24 30 60 66 (?)

24. 1 1 2 3 5 8 13 (?)

25. 18 36 6 12 2 (?)

Measurements

26. What is 43.82m in centimeters?

27. If the race track is 400m in one lap, how many laps will I need to do to run 2km?

28. One cup can hold 250ml of water. If I wanted to fill a 6.5 litre jug how many cups would I need?

29. When I was filling the jug I didn't notice it had a hole in. It was losing 100ml an hour through the hole. How long would it take to empty the jug?

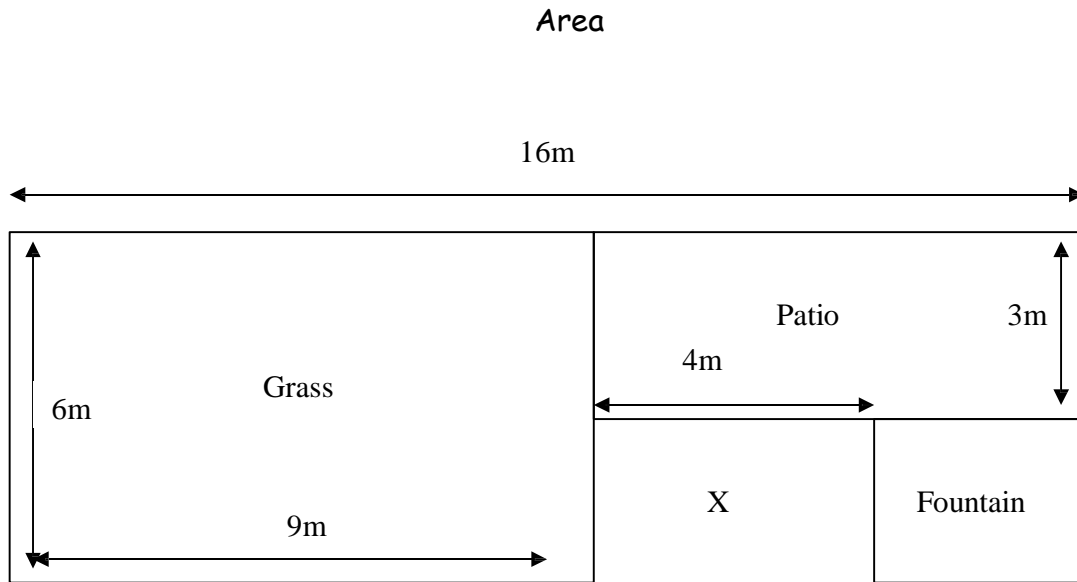
30. If a cake needed 340g of butter to make, how many packs of 200g butter would I need to buy to make sure I had enough to make 5 cakes.

Time

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

Movies	Showing Times			
Fairy Dust	11.30	13.35	16.30	20.30
Adventure Time	9.45	11.50	14.45	19.20
13 Little Wishes	11.45	13.30	15.50	21.00
My Friend Adam	12.00	14.30	-----	-----
Happy Lives	9.00	11.55	16.45	19.20
Who are You?	10.15	12.45	16.00	20.45

31. If I get to the cinema by 11.40 how many movies have I already missed?
32. If 'My Friend Adam' lasts 1 hour 25 minutes what time would the 14.30 showing finish?
33. How long would I have to wait if I got to the cinema at 11.38 before the movie 'Who are You' started?
34. If I arrange to meet my friends at 11.20 outside the cinema what time would I actually meet them if I had gone to watch the earliest showing of Adventure Time and it lasts 1 hour 55 minutes?
35. I need to get to the cinema to see the 11.55 showing of Happy Lives. If it takes 12 minutes to walk there and I will also need 10 minutes to buy a ticket and 5 minutes to get a drink what time should I leave home?



This shows the plans for a new garden layout. Use the information in it to answer the questions below.

36. What is the total area covered by grass?
37. What is the total area covered by patio?
38. If the owner wanted to cover the empty section (marked with an x) with tiles, how much area would he have to cover?
39. What is the area covered by the fountain?
40. If the owner wanted to put fence all around the outside of the grass, patio and fountain how many metres would he need to buy?

Decimals

- 41 Write 15.42325 correct to three decimal places
- 42 If my bus fare costs £1.45 and then I also buy a comic for 80p, how much money will I have left if I started the day with £4.50?
43. My best friend is 1.45cm tall. If I am 1.63cm tall how much shorter than me is he?
44. The distances in the long jump final were 3.45m, 2.18m, 4.37m, 5.12m and 5.78m. What was the average distance jumped?
45. If the train to London costs £23.40 one way, how much will it cost for me and two friends to go there and back?

Balancing Equations

46. $18 \times 2 + 11 - 8 = 17 \times 2 + 16 - (?)$
47. $(8 \times 7) \div 2 + 45 = 8(108 \div 12) + (?)$
48. $62 - 18 - 19 = 24 \times 3 + 2 - (?)$
49. $3(96 \div 8) + 13 = 17 \times 4 - (?)$
50. $48 \div (16 \div 2) = 3 \times 7 + (16 - 7) - (?)$

Maths Paper 3 - Answersheet

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