



# 11+ For You

## Maths Paper 8

Please put your name at the bottom of the page.

This maths paper contains 50 questions.

You have 50 minutes to complete the test.

Write your answer clearly on the paper.

Make sure any mistakes are erased.

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### Basic Arithmetic

1. Write 3192 as a word.
2. What is 38 multiplied by 8?
3. If James will be seventeen in four years how old was he last year?
4. Round 46 to the nearest 10.
5. What is  $4.8\text{kg} + 600\text{g}$  in grams?

### Probability

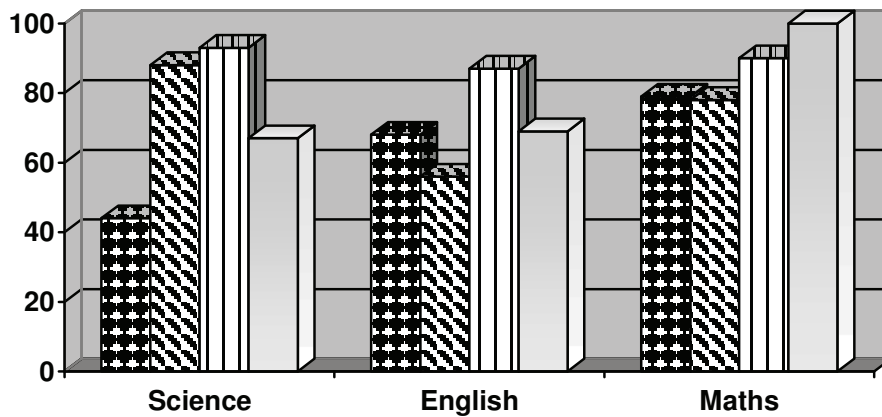
6. What is the probability that if I pick a random day of the week it will start with a 'T'?
7. If I have 12 fish in the tank and 4 of them are female, what is the probability that if I picked one out it would be male?
8. In my class of 27 people, three people have a birthday in August. If I pick a random person what is the probability their birthday will not be in August?
9. If a farmer has three white horses, five brown horses, two black horses and seven grey horses what in the probability chooses one randomly to sell, what is the probability that it is grey?
10. If I roll a dice three times what is the probability that I will get a six on all three rolls?

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### Graph

Using the graph below that shows the results in a sports day, answer the questions that follow.



Clare



Ahmed



Paul



Tamsin

11. Who got the best grade in maths?
12. Which subject did Clare perform least well in?
13. Who do you think the best student is?
14. Which student do you think would be happiest writing a story?
15. Roughly how much did Ahmed score in maths?

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### Weight and Measurement

16. How many cups of water are needed to fill a three litre bottle if each cup holds 200ml?
17. What would be the correct measurement for weighing a lorry?  
grams   metres   kilograms   tonnes   gallons
18. What is 3.85 kilograms in grams?
19. The athlete managed to pole vault 5.89 metres, 6.83 metres and 5.41 metres. What was his average height in centimetres?
20. If there are three relay teams and each person in the team runs 400 metres, how far will the teams run altogether if there are four people in each team?

### Number Sequences

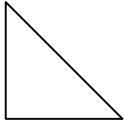
21. 4   12   12   36   36 (?)
22. 87   82   74   69   61   56 (?)
23. 14   28   18   36   26   52 (?)
24. 53   47   42   38   35 (?)
25. 73   79   91   97   109 (?)

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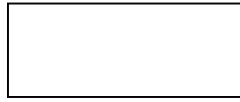
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### Shapes

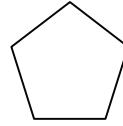
26. Which one of these shapes has exactly two lines of symmetry?



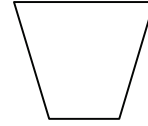
a



b



c



d

27. How many faces does a cube have?

28. Which shape will always look the same however many degrees it is rotated by?

29. What is unique about an equilateral triangle?

30. If I add the sides of a triangle, square, rectangle and pentagon together what total do I get?

### Numbers in the middle

Each number in the middle has been made using the numbers on each side in a set way. There has been a maximum of two steps to work out the number.

31. 12 (7) 19

34 (29) 63

18 (?) 42

32. 8 (32) 8

4 (12) 6

12 (?) 4

33. 14 (27) 13

56 (77) 21

32 (?) 17

34. 12 (9) 4

18 (6) 9

28 (?) 2

35. 77 (25) 27

27 (5) 17

31 (?) 9

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Add the correct symbol

( X / + - )

36.  $4 (?) 7 - 4 = 24$

37.  $9 + 7 (?) 12 + 3 = 31$

38.  $4 (3 (?) 2) \times 3 = 12$

39.  $(17 - 8) (?) 3 - 6 = 21$

40.  $(48 \div 6) (?) 3 - 7 = 17$

### Algebra

41.  $A = 3$   $B = 7$   $C = 4$   $D = 10$   $E = 15$

What is  $A \times B + C - D =$

42.  $A = 14$   $B = 22$   $C = 3$   $D = 7$   $E = 19$

What is  $C(E - D) - A$

43.  $A = 8$   $B = 3$   $C = 20$   $D = 6$   $E = 2$

What is  $C \times B \div D - A =$

44.  $A = 40$   $B = 25$   $C = 41$   $D = 42$   $E = 18$

What is  $B + A + E - D =$

45.  $A = 7$   $B = 12$   $C = 8$   $D = 13$   $E = 19$

What is  $C \times A - (B + D) - E =$

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### Using Data

Hottest Recorded Temperature				
	June	July	August	September
Barmouth	22.1	25.4	28.9	23.1
Cornwall	22.7	27	29.2	24
Dorset	21.8	27.4	27.9	23
Brighton	24.2	27.9	30	23.3

46. Which area had the highest temperature?
47. What was the difference in temperature between the highest and lowest area in July?
48. What was the average temperature in Brighton from June to September (correct to one decimal place)?
49. Which area recorded the lowest temperature out of all the months?
50. How much hotter was Brighton in August than Dorset in June?

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