

# Bond

No.1 for exam success

## 11+ Maths

### Multiple-choice Test Papers Pack 1 Test 4

Read the following carefully:

- Do not begin the test or open this booklet until told to do so
- Work as quickly and as carefully as you can
- Answers should be marked in pencil in the answer booklet provided, not in this test booklet
- You may do rough working on a separate sheet of paper
- If you make a mistake rub out the mistake and write the new answer clearly
- Be careful to keep your place in the accompanying answer booklet
- You will have 50 minutes to complete the test
- Calculators should not be used

**OXFORD**  
UNIVERSITY PRESS

Great Clarendon Street, Oxford, OX2 6DP, United Kingdom

Oxford University Press is a department of the University of Oxford. It furthers the University's objective of excellence in research, scholarship, and education by publishing worldwide. Oxford is a registered trade mark of Oxford University Press in the UK and in certain other countries

Text © Andrew Baines 2015

Illustrations © Oxford University Press 2015

The moral rights of the authors have been asserted

First published in 2015

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, without the prior permission in writing of Oxford University Press, or as expressly permitted by law, by licence or under terms agreed with the appropriate reprographics rights organization. Enquiries concerning reproduction outside the scope of the above should be sent to the Rights Department, Oxford University Press, at the address above.

You must not circulate this work in any other form and you must impose this same condition on any acquirer

British Library Cataloguing in Publication Data  
Data available

978-0-19-274085-4

10 9 8 7 6 5

Paper used in the production of this book is a natural, recyclable product made from wood grown in sustainable forests. The manufacturing process conforms to the environmental regulations of the country of origin.

Printed in India

#### Acknowledgements

The publishers would like to thank the following for permissions to use copyright material:

Cover illustrations: Lo Cole

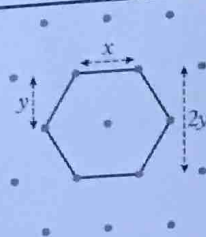
Although we have made every effort to trace and contact all copyright holders before publication this has not been possible in all cases. If notified, the publisher will rectify any errors or omissions at the earliest opportunity.

Links to third party websites are provided by Oxford in good faith and for information only. Oxford disclaims any responsibility for the materials contained in any third party website referenced in this work.

- 1 There are 60 children at a Christmas Party, of whom 23 are boys. Approximately what proportion is this?
- A  $\frac{1}{2}$       B  $\frac{1}{3}$       C  $\frac{1}{4}$       D  $\frac{2}{5}$       E  $\frac{5}{12}$

- 2 What is the formula for the area of this shape?

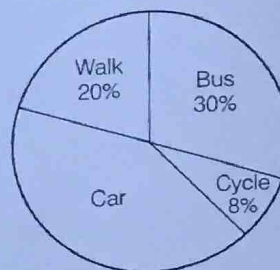
- A  $x^2$       B  $y^2$       C  $4xy$   
D  $3xy$       E  $(x + y)^2$



- 3 Ravi takes the bus from home to school then school to home for five days each week. Each fare is 57p. What is the total of the fares he pays each week?
- A £5.80      B £5.70      C £4.70      D £2.85      E £5.60

- 4 350 pupils were asked how they came to school. The results are displayed in the pie chart. How many pupils came to school by car?

- A 147      B 42      C 210  
D 140      E 150



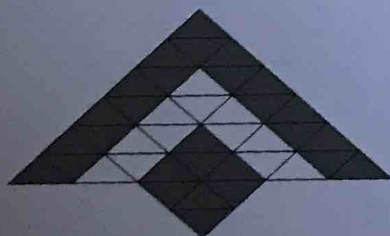
- 5 A joiner is building 14 cupboards in a new kitchen. Each cupboard requires 26 screws. How many screws will be required in total?
- A 260      B 380      C 364      D 366      E 370

- 6 This machine divides by 4 and then multiplies by 5. Which number comes out?



- A 23      B 18.4      C 73.6  
D 110      E 115

- 7 What percentage of the diagram has been shaded?



- A 70%      B 65%  
C 60%      D 40%  
E 30%

- 8 Carmel has joined her local gym. She pays  $x$  pounds each month in membership fees. She also joins a Pilates class once a week and goes every week in the year. Each class costs  $y$  pounds. What is the total amount Carmel pays each year?

- A  $12x + y$       B  $52(x + y)$       C  $12x + 52y$       D  $12(x + y)$       E  $52x + 12y$

Continue to the next page



- 9 The Science Department is going on a day trip to the National Science Museum. The trip costs £25 and 43 people are going and have paid the full amount. How much money has been collected in total?
- A £1000      B £1075      C £2150      D £1100      E £1125

- 10 There are 240 books in the school library.  $\frac{1}{5}$  of the books are fiction.  $\frac{2}{5}$  of the books are non-fiction. The rest are reference books. How many reference books are in the school library?
- A 72      B 96      C 144      D 98      E 94

- 11
- |    |    |    |      |
|----|----|----|------|
|    | ?  | 6  | → 33 |
| 9  |    | 13 | → 33 |
|    | 10 |    | → 33 |
| ↓  | ↓  | ↓  |      |
| 33 | 33 | 33 |      |
- When every space in the grid is filled in, each row and each column adds up to 33.  
Which number should be in the square with the question mark?
- A 6      B 9      C 11      D 12      E 13

- 12 A computer checks emails and news updates on a regular basis. The computer checks emails every five minutes and news updates every seven minutes. Neither work when both checks are being done at the same time and this causes an error message on the screen. There is one error message after an hour and three error messages after two hours. How many error messages are there after 5 hours?
- A 6      B 7      C 8      D 9      E 10

- 13 Debbie wants to create her own small flower garden. She goes to the garden centre with her mum and buys some bulbs. She buys:
- 5 bulbs at £1.20.    4 bulbs at 95p.    3 bulbs at 75p.    6 bulbs at 50p.    2 bulbs at £1.40.
- How much is her total bill?
- A £4.80      B £14.85      C £17.85      D £20.00      E £32.80

- 14 This table shows the results for Tanvi's favourite netball team.

Year	Won	Drawn	Lost
2012	9	3	1
2013	6	2	5
2014	5	8	0

How many matches in total did the team not win?

- A 19      B 6      C 13      D 20      E 18

- 15 There are 500 sheets of paper in a ream. How many sheets of paper are in 6.5 reams?
- A 3500      B 3000      C 3150      D 6500      E 3250

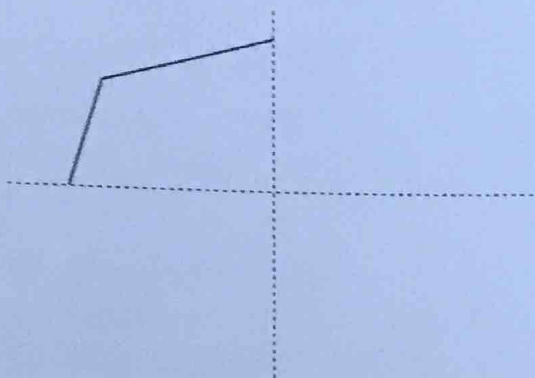
- 16 Woodside School did a survey on favourite fruit. Which of the numbers given below is the number of pupils who liked apples best?

Favourite fruit	
Apple	↷ ↷
Orange	↷ ↷
Banana	
Pear	↷ ↷ ↷ ↷
Kiwi	↷

Key: ↷ stands for 6 children  
↷ stands for fewer than 6 children

- A 6                      B 12                      C 18  
D 0                      E 11

17



The diagram shows part of a shape and two lines of symmetry. What is the name of the complete shape?

- A irregular quadrilateral  
B irregular hexagon  
C irregular octagon  
D irregular decagon  
E regular octagon

- 18 A map of the Yorkshire Dales is drawn to a scale of 1:25 000. What real distance does 1 cm on the map represent?

- A 25 km                      B 0.025 km                      C 0.25 km                      D 250 km                      E 2.5 km

- 19 What does the digit 8 in 203 081 represent?

- A 8                      B 80                      C 8000                      D 800 000                      E 800

- 20 Which container will hold about 0.5 litres when full?

- A a bath                      B a sink                      C a kettle                      D a milk bottle                      E an egg cup

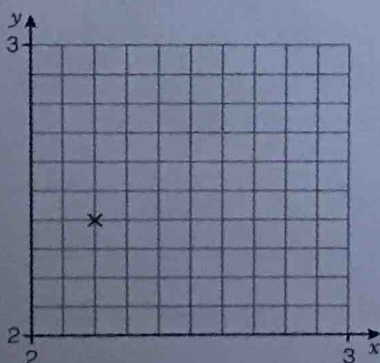
- 21 Josh is going on a holiday for a week this August. He has paid a deposit of £50 towards the total cost of £225. He can afford to save £35 per month towards the total cost. How many months will it take him to save enough to pay the rest of the money?

- A 4                      B 5                      C 6                      D 7                      E 8

- 22 The perimeter of a rectangle is 22 cm. If the lengths of two sides are both 10 cm, what is the area of the rectangle?

- A 10 cm<sup>2</sup>                      B 11 cm<sup>2</sup>                      C 20 cm<sup>2</sup>                      D 32 cm<sup>2</sup>                      E 220 cm<sup>2</sup>

23



What are the coordinates of the cross?

- A (2.2, 2.4)  
B (2.1, 2.5)  
C (2.2, 2.3)  
D (2.1, 2.4)  
E (2.4, 2.2)

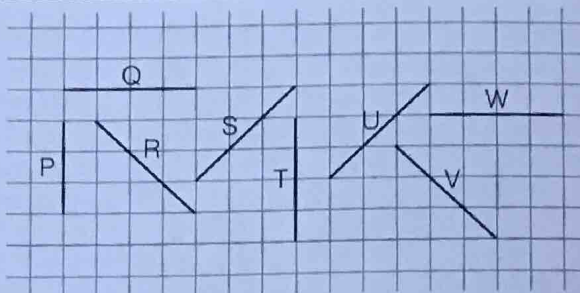
Continue to the next page



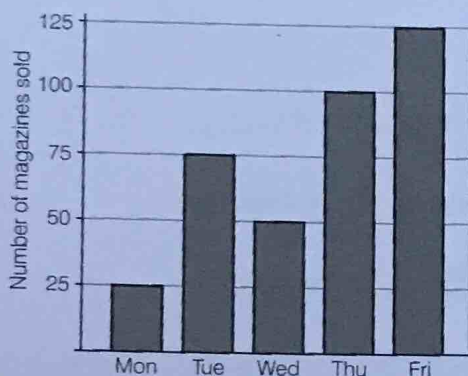


31 Which of these statements is incorrect?

- A Line P is parallel to line T.
- B Line R is perpendicular to line U.
- C Line T is a vertical line.
- D Line S is parallel to line V.
- E Line W is a horizontal line.



32



This shows the number of magazines sold by a shop in five days. How many more magazines were sold on Wednesday than on Monday?

- A 25
- B 50
- C 75
- D 100
- E 125

33 Which one of these has the closest value to 1?

- A 0.95
- B 94.3%
- C  $\frac{24}{25}$
- D 94.29%
- E  $\frac{24}{27}$

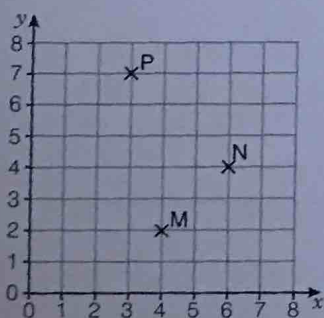
34 These are the temperatures in °C recorded at midday during Susan's two-week holiday.

26	28	27	28	26	25	26
25	27	28	29	31	31	28

What is the modal temperature?

- A 28°C
- B 27°C
- C 31°C
- D 30°C
- E 29°C

35



What are the coordinates of M, N and P?

- A M (4, 2)      N (4, 6)      P (4, 7)
- B M (4, 2)      N (6, 4)      P (3, 7)
- C M (4, 2)      N (7, 4)      P (7, 3)
- D M (2, 4)      N (6, 4)      P (3, 7)
- E M (5, 2)      N (6, 3)      P (3, 7)

36 Which ratio is not equivalent to the ratio 36:20?

- A 18:10
- B 9:5
- C 27:15
- D 54:30
- E 46:25

37 David is three times as old as his sister. In two years' time he will be 14. How old is his sister?

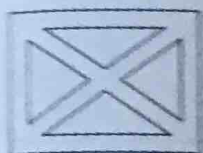
- A 3
- B 12
- C 4
- D 16
- E 5

Continue to the next page

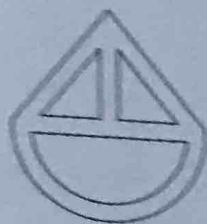


38

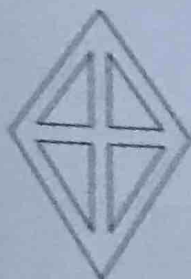
A paperboy delivers papers to a housing estate. He does not want to visit the same street more than once, but can pass over the same street corners. On which housing estate is this possible?



A



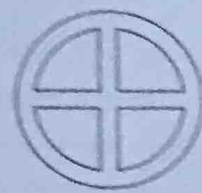
B



C



D



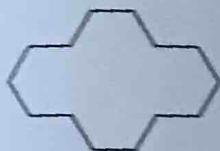
E

39

A  $60^\circ$ B  $70^\circ$ C  $120^\circ$ D  $240^\circ$ E  $110^\circ$ 

This shape is made from a parallelogram and an equilateral triangle. What is the size of angle  $p$ ?

40



A 24

B 18

C 20

D 26

E 22

The sides of both shapes are the same length. How many times will the smaller shape fit into the larger shape?

41

The cost of installing a broadband service has been reduced by 40%. The original cost was £38.50. How much is it now?

A £22.10

B £23.10

C £24.50

D £19.25

E £15.40

42

There are 432 seats available for a musical. 26 seats are complimentary to the staff and the press. 217 are sold in advance to family and friends of the cast and backstage crew. The rest of the tickets are available to the general public. How many are available to the general public?

A 217

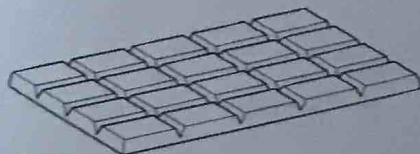
B 215

C 191

D 189

E 406

43



A chocolate bar has 20 pieces.

Sharma eats eight pieces.

What percentage of the pieces is left?

A 40%

B 50%

C 60%

D 70%

E 80%

44

Look at the table showing how long Sarah has to wait for her school bus in one week.

Day	Monday	Tuesday	Wednesday	Thursday	Friday
Minutes	7	5	1	0	9

What is the range?

A 9

B 0

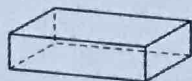
C 4.5

D 8

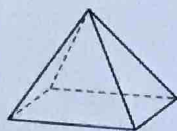
E 22

Please turn over

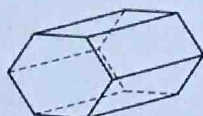
45



A



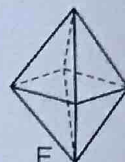
B



C



D



E

Which of these solids has an even number of edges and an odd number of faces?

46

The coordinates of the end points of five lines are given below. Which line is perpendicular to the line in the diagram?

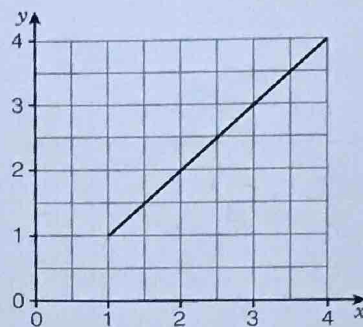
A (2, 1) and (3, 4)

B (1, 4) and (4, 4)

C (1, 1) and (4, 4)

D (1, 4) and (4, 1)

E (1, 2) and (3, 1)



47

A thermometer shows the temperature at midday and midnight outside the school office. On Wednesday it showed the following:

Midday	8°C
Midnight	-3°C

What is the difference between these two temperatures in degrees Celsius?

A 5°C

B 3°C

C 8°C

D 12°C

E 11°C

48

Rulers cost the same as erasers. Four of the following cost the same. Which does not cost the same as the rest?

A two rulers, three erasers

B one eraser, one ruler, six pencils

C two erasers, two rulers, two pencils

D two rulers, two erasers, four pencils

E three erasers, one ruler, two pencils

49

Which number has the value closest to 7?

A 7.001

B 6.989

C 7.101

D 6.99

E 7.0

50

This bar chart shows the times of goals scored in school football matches in one season. How many goals were scored after more than 45 minutes had passed?

A 7

B 16

C 15

D 32

E 8

