Bond
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11+ Maths

Multiple-choice Test Papers
Pack 2
Test 4

Read the following carefully:

- Do not begin the test or open the 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.

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1 If the temperature is $^{-}12°C$ and it falls by 7°C what is the new temperature?

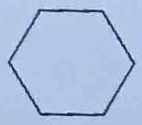
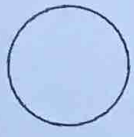
A 5°C B $^{-}7°C$ C $^{-}17°C$ D $^{-}5°C$ E $^{-}19°C$ 1

2 Which option represents the number that is written below in words?

six million, sixty-nine thousand, six hundred and nine

A 6 690 609 B 60 069 690 C 6 069 609 D 66 690 609 E 6 069 690 1

3 Which of these shapes has a perpendicular line?

A  B  C  D  E  1

4 What is the equivalent of 350 grams in kilograms?

A 35 kg B 3.5 kg C 0.35 kg D 0.035 kg E 0.0035 kg 1

5 Order these fractions, largest first.

$\frac{2}{3}$ $\frac{7}{6}$ $\frac{1}{2}$ $\frac{5}{6}$ $\frac{6}{3}$

A $\frac{5}{6}$ $\frac{7}{6}$ $\frac{6}{3}$ $\frac{2}{3}$ $\frac{1}{2}$

B $\frac{7}{6}$ $\frac{6}{3}$ $\frac{5}{6}$ $\frac{1}{2}$ $\frac{2}{3}$

C $\frac{7}{6}$ $\frac{6}{3}$ $\frac{5}{6}$ $\frac{2}{3}$ $\frac{1}{2}$

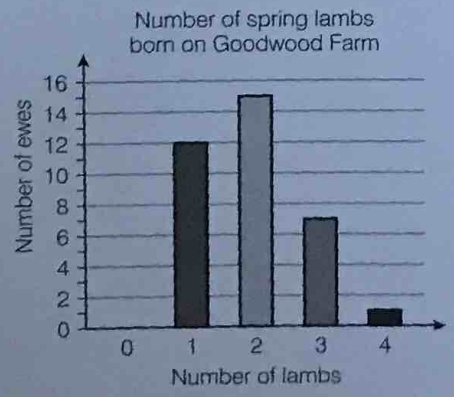
D $\frac{6}{3}$ $\frac{7}{6}$ $\frac{5}{6}$ $\frac{2}{3}$ $\frac{1}{2}$

E $\frac{6}{3}$ $\frac{7}{6}$ $\frac{2}{3}$ $\frac{5}{6}$ $\frac{1}{2}$ 1

6 A group of 12 people won £282 000 on the lottery. The total was divided equally between them. How much did they each receive?

A £23 500 B £28 200 C £22 800 D £23 000 E £24 200 1

7–9 Look carefully at this bar chart then answer the questions.



Total 6

Continue to the next page

How many ewes gave birth to 1 or more lambs?

A 30 B 34 C 35 D 38 E 40

How many more ewes gave birth to twins rather than triplets?

A 9 B 6 C 14 D 3 E 8

What is the sum of the number of lambs born?

A 70 B 63 C 66 D 67 E 74

3

10 Which number sentence totals a prime number?

A 3×5 B $12 + 6$ C $34 - 15$ D 9×2 E $31 - 17$

1

11–12 A pack of 12 tins of cat food is sold at the price of 43p per tin.
However, if two packs are bought, the second pack is half price.

How much do:

24 tins of cat food cost?

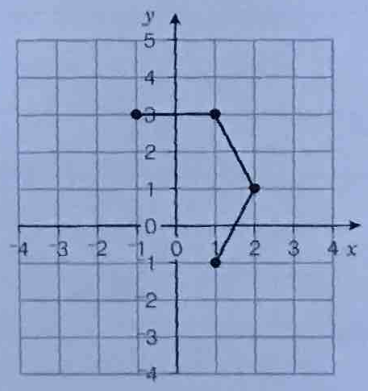
A £5.16 B £10.32 C £9.03 D £7.74 E £8.60

36 tins of cat food cost?

A £12.90 B £15.48 C £12.74 D £15.90 E £10.32

2

13 What are the missing coordinates that will complete this hexagon?



A $(^-2, ^-1)$ and $(^-1, ^-1)$
B $(1, ^-2)$ and $(1, 1)$
C $(^-2, 1)$ and $(^-1, ^-1)$
D $(^-3, 1)$ and $(^-2, ^-1)$
E $(^-3, ^-1)$ and $(^-1, 1)$

1

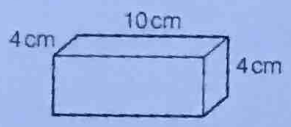
Total 7

14 What is the order of rotational symmetry of a oblong?

A 1 B 2 C 3 D 4 E 5

1

15 What is the volume of this shape?



A $40\,cm^3$ B $100\,cm^3$ C $120\,cm^3$ D $140\,cm^3$ E $160\,cm^3$

1

16 Look at the chickens' egg laying record below. Find the mean number of eggs laid in a day.

	12th May	13th May	14th May	15th May	16th May	17th May	18th May
No. of eggs	12	18	16	15	17	13	21

A 15 B 16 C 17 D 18 E 19

1

17 Find an equivalent fraction for $\frac{3}{5}$.

A $\frac{18}{30}$ B $\frac{9}{20}$ C $\frac{6}{15}$ D $\frac{30}{100}$ E $\frac{9}{25}$

1

18 The Jenkins family were going on holiday to Wales. Their journey was a total of 378.4 miles. After 198.7 miles they stopped for a drink.

How much further did they have to travel?

A 180.4 miles B 179.7 miles C 179.4 miles D 180.7 miles E 180.2 miles

1

19 What is 3^3?

A 12 B 9 C 27 D 33 E 1

1

20 Which of these pairs of numbers has a common factor of 7?

A 49, 108 B 72, 84 C 63, 114 D 84, 98 E 70, 94

1

21 How many seconds are there in a day?

A 1440 B 8640 C 14 400 D 86 400 E none of these

1

22 Which of the following rectangle sizes produces the shortest perimeter?

A L = 18 cm, W = 4 cm B L = 12 cm, W = 6 cm C L = 36 cm, W = 2 cm D L = 9 cm, W = 8 cm E L = 24 cm, W = 3 cm

1

Total 9

Continue to the next page

23 Which is the largest amount?

A $\frac{1}{2}$ of 560 B 30% of 600 C $\frac{6}{7}$ of 490 D 55% of 750 E 20% of 800

1

24 Find the range of children in this village school who have school dinners over a two-week period.

	Number of children	
	Week 1	Week 2
Monday	35	46
Tuesday	33	28
Wednesday	41	38
Thursday	51	27
Friday	33	56

A 33 B 39 C 29 D 36 E 33

1

25 What is the number expressed as a decimal?

$\frac{4}{100} =$

A 0.4 B 0.44 C 0.04 D 0.004 E 0.044

1

26 Which of the athletes below ran the 50 metres in the quickest time?

Freya	13.1 s
Lin	11.9 s
Hannah	12.7 s
Yousef	11.99 s
Garry	12.75 s

A Freya B Lin C Hannah D Yousef E Garry

1

27 Multiply 5.21 by 1000.

A 521 B 5210 C 52 100 D 0.521 E 0.0521

1

28 During a 12-month period a salesman filled his car with petrol 54 times. He did an average of 278 miles on each tank of petrol.

How many miles did the salesman travel?

A 14 904 miles B 15 012 miles C 14 456 miles D 15 016 miles E 14 906 miles

1

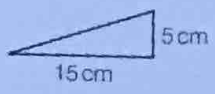
29 The Stewart family shared a cake. Dad ate $\frac{1}{8}$, Mum ate $\frac{1}{16}$, Jemma and Carys ate $\frac{1}{4}$ between them. How much of the cake did the Stewart family eat in total?

A $\frac{6}{16}$ B $\frac{1}{3}$ C $\frac{3}{8}$ D $\frac{7}{16}$ E $\frac{1}{2}$

1

Total 7

30 Find the area of this right-angled triangle.



A 25 cm² B 32.5 cm² C 75 cm² D 50 cm² E 37.5 cm²

1

31–32 A group of 26 people each bought a ticket to a music festival.
The tickets cost a total of £4680.

How much did it cost each person?

A £ 180 B £175 C £185 D £190 E £170

Later the group found out that it would have been cheaper had they made a group booking. If they had paid as one group for 20 of the tickets and bought the 6 extras they needed, the tickets would have averaged out at £160 per person. How much would they have saved overall if they had used this method?

A £400 B £520 C £420 D £500 E £1480

2

33 Which of these decimals is equivalent to 39%?

A 3.9 B 0.039 C 39.0 D 0.39 E 0.0039

1

34 Read the following statement.

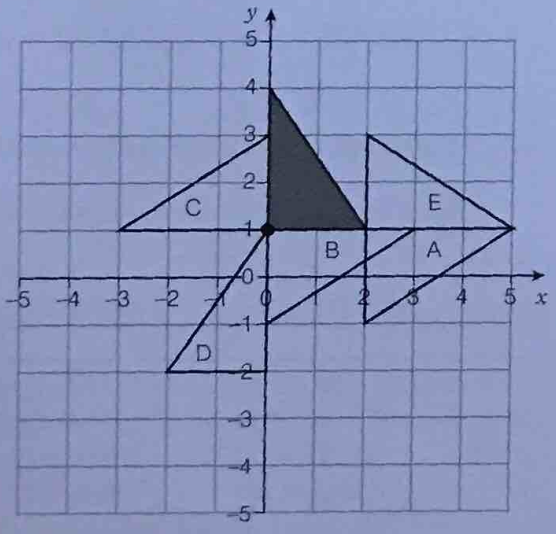
'A three-dimensional shape that has the same cross-section along its entire length.'

Which type of shape does this definition describe?

A parallelogram B pentagon C prism D pyramid E polygon

1

35 Rotate this shaded shape through 90° clockwise about the vertex marked with a dot. What position would it now be in?



1

Total 6

Continue to the next page

36 Barney thinks of a number. He adds 6, squares it and then subtracts 11. The result is 70.

What number did Barney first think of?

A 1 B 2 C 3 D 4 E 5

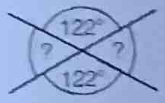
1

37 A scientist measures the amount of powder left after a controlled explosion. It weighs 34.644 g. The amount is recorded to the closest tenth. How many grams are recorded?

A 34.64 g B 35 g C 34.5 g D 34.6 g E 34 g

1

38 Calculate the missing angles.



A 58° each B 60° each C 116° each D 57° and 59° E 60° and 62°

1

39 What is the ratio 9 : 24 in its simplest form?

A 1 : 3 B 3 : 8 C 4 : 6 D 3 : 1 E 3 : 6

1

40 What is the missing number in this calculation?

8.09 + ☐ = 23.77

A 15.66 B 15.86 C 15.81 D 15.68 E 15.88

1

41 A centimetre square has 4 lines of symmetry. If two identical centimetre squares were joined together along their sides, how many lines of symmetry would the new shape have?

A 0 B 2 C 4 D 6 E 8

1

42 A sequence rule = + 8. The second term is 0.
What will the sixth term be?

A $^{-}32$ B $^{-}16$ C 16 D 24 E 32

1

43–44 An oblong has a perimeter of 40 cm.

Which option shows two possible areas of the oblong?

A 18 cm², 75 cm² B 84 cm², 70 cm² C 75 cm², 36 cm² D 70 cm², 36 cm² E 36 cm², 18 cm²

If the length of the oblong is actually 13 cm, what is its area?

A 169 cm² B 351 cm² C 117 cm² D 91 cm² E 520 cm²

2

Total 9

45 If $12d = 33 + d$, what does d equal?

A 1 B 2 C 3 D 4 E 5

1

46 Daisy, the farmer's favourite cow, produces 1.8 gallons of milk in the morning and a further 1.2 gallons in the afternoon.

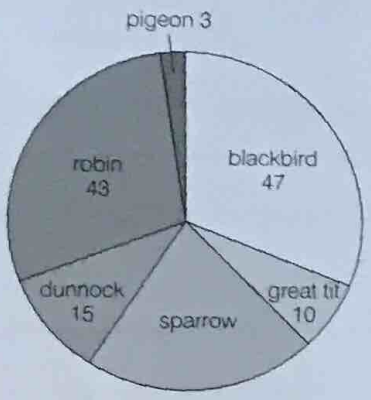
How many pints does Daisy produce a day?

A 24 pints B 13.5 pints C 15 pints D 6 pints E 30 pints

1

47–49 Look carefully at the pie chart and then answer the questions.

Survey of 150 birds during one week in spring



How many sparrows were seen during the week?

A 32 B 33 C 34 D 35 E 36

What percentage of the birds spotted were dunnocks?

A 5% B 10% C 15% D 6% E 12%

Which combination of birds make up 50% of the survey?

A sparrow, dunnock and great tit
B pigeon, blackbird and dunnock
C sparrow and robin
D robin and blackbird
E pigeon, robin and dunnock

3

50 $y^2 < 6z - 8$

If $z = 6$, which of these values could be y?

A 6 B 7 C 5 D 8 E 9

1

Total 6

Total 50