

Bexley Selection Tests

Specimen Questions - Mathematics

The specimen questions try and give an idea of the *range* and *presentation* of questions that will be used in the Bexley mathematics selection test, but they should not be viewed as a complete sample paper. In the actual test, there will be 50 questions.

The specimen questions do not attempt to reproduce the balance of easy and difficult questions that will appear in the full papers. Getting these questions right should not be used as an indication of how well a child might do in the actual test.

All the questions in the mathematics test are multiple-choice in format. Mathematics questions have 5 answer options (A - E); children have to choose the correct answer. Only one answer is correct. The tests will have a special answer sheet that pupils will mark with a pencil. These sheets will be read by computer when they are marked.

Children taking part in the Bexley tests will have scrap paper to carry out any working. Children should be encouraged to do some jottings and not try and attempt all the questions mentally. The scrap paper is just that; it will not be marked or form part of the assessment.

The specimen questions relate only to the tests used in Bexley. In other areas the tests may be different and may be designed to cover a different range of topics and question difficulty.

Answers are given in a separate document. This also has some comments for parents and others who may be looking at the questions with children. These comments are shown by:

 Parents

No attempt has been made to give standard answers or methods as children will vary in their understanding of any specific way of answering a question, depending on the methods they have learnt in school. The selection tests differ from the national curriculum key stage tests, as no credit is given for working.

Maths Question 1

Mr Waller is making some frames for a chicken run; they are 2.4 metres long and 0.6 metres wide.



He has bought three lengths of wood each 2.4 metres long.

How much wood will he have left over?

- A 1.2 metres
 - B 0.6 metres
 - C 2.4 metres
 - D 3 metres
 - E 7.2 metres
-

Maths Question 2


There are 50,000 people at a football match between Manchester United and Tottenham.

If 60% of the spectators are Manchester United supporters how many people at the match support Tottenham?

- A 70,000 B $\frac{2}{5}$ C 20,000 D 40% E 5000

Maths Question 3

The table below shows times of trains from Minehead to Bishops Lydeard.

	Steam Special	Steam Special	Steam Special
	Duchess of Argyle	Iron Duke	Duchess of Bute
Minehead	12:30	14:15	16:00
Dunster	12:37	14:22	16:07
Blue Anchor	12:45	14:29	16:15
Watchet	13:02	14:47	16:33
Williton	13:12	14:58	16:44
Bishops Lydeard	13:43	15:30	17:17

Train times are shown on a 24-hour clock

How long does the journey from Dunster to Bishops Lydeard take if I catch the *Iron Duke* service?

- A** 15:58 **B** 1 hr 28 min **C** 1 hr 8 min **D** 88 minutes **E** 3 hours

Maths Question 4

The table below shows the cost of single tickets for railway journeys from Dunster to other stations.

from Dunster to:	Adult	Child
Minehead	£2.60	£1.30
Blue Anchor	£2.60	£1.30
Watchet	£5.20	£2.60
Williton	£6.00	£3.00
Bishops Lydeard	£8.60	£4.30

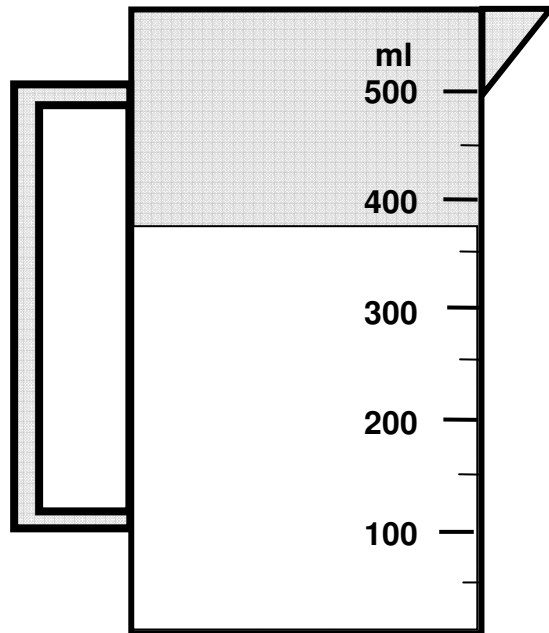


One adult and one child travel from Dunster to Bishops Lydeard. How much change do they get from £20 when they buy the tickets?

- A** £8.60 **B** £12.90 **C** £13.10 **D** £7.10 **E** £6.10

Maths Question 5

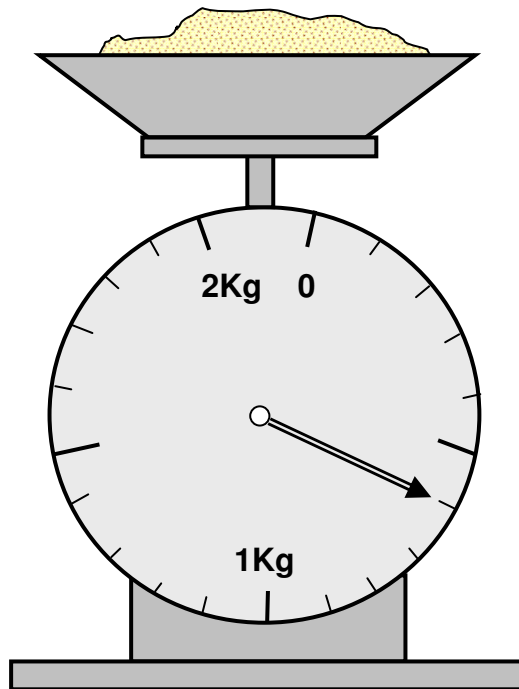
Mary is making pancakes. How much milk has she added to the jug?



- A 350ml
- B 400ml
- C 375ml
- D 300ml
- E 0.45 litres

Maths Question 6

Andre is baking a cake. He has already added some ingredients to the scales



He is now going to add 200 grams of raisins.

What will the scales show when he has added the raisins?

- A 1.5 Kg B 1400g C 0.6 Kg D 800g E 1.8 Kg

Maths Question 7

Wescos sold Easter eggs for 99p each as a special offer. They should have been £1.89 each.



They sold 500 eggs in a week.

How much less did they take by selling at the lower price?

- A 90p B £450 C £500 D £945 E £495

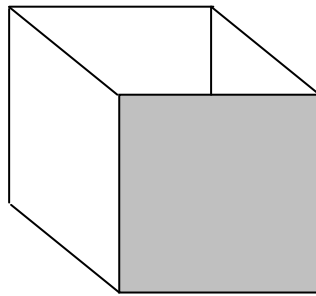
Maths Question 8

Calculate: 347×45

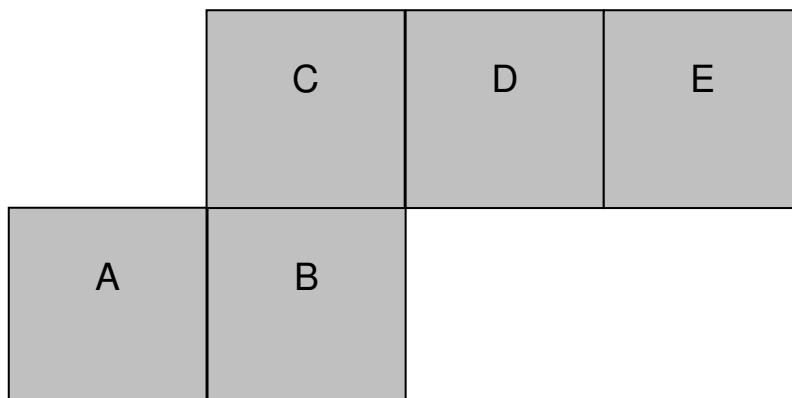
A 15,615 B 3123 C 156,150 D 312,230 E 139,120

Maths Question 9

This is a cardboard box with an open top. It is a cube.



This is the net that is used to make the box. Which would be the base of the cube?



Maths Question 10



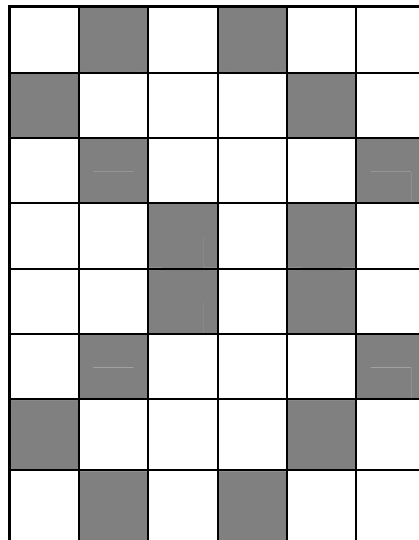
Polly put 5 seeds in each of her pots. She has 12 pots and now there are 8 seeds left over.

How many seeds did she start with?

- A 86 B 66 C 68 D 60 E 52
-

Maths Question 11

The picture shows a tiled floor. What **fraction** of the floor has the dark tiles?



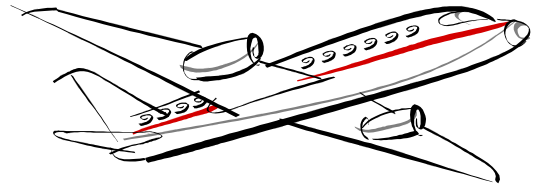
- A $\frac{12}{24}$
B $\frac{3}{4}$
C 50%
D $\frac{18}{48}$
E $\frac{1}{3}$

Maths Question 12

The temperature inside an aircraft is 18°C .

The air temperature outside the aircraft is -14°C .

What is the difference in temperature?



- A 32°C B 28°C C -4°C D 4°C E -18°C
-

Maths Question 13

Which decimal is closest to the fraction $\frac{1}{10}$?

- A 0.12 B 0.01 C 1.0 D 0.15 E 0.09
-

Maths Question 14

A teacher writes some sums on cards. Which card in the left hand column does **not** have an equivalent value hidden somewhere in the right hand column?

A 15×3

$98 \div 2$

B $24 \div 8$

79

C $15 + 33$

$50 - 5$

D $(9 \times 8) + 7$

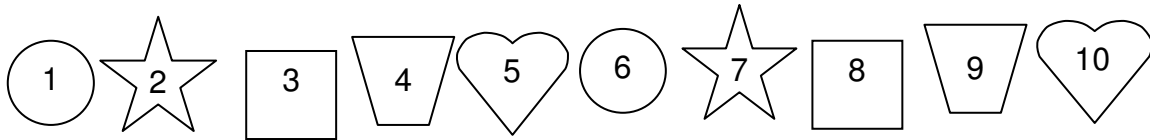
24×2

E 7×7

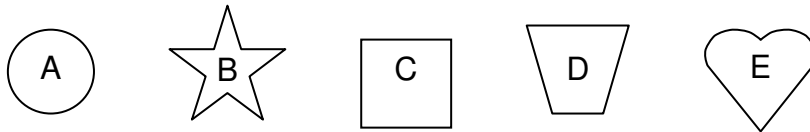
$60 \div 15$

Maths Question 15

Look at this repeating pattern of shapes and numbers.



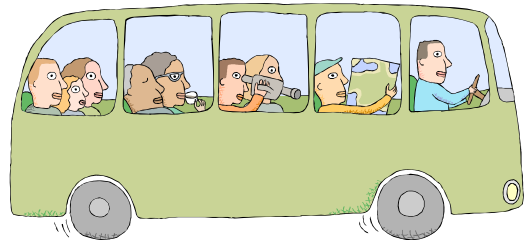
Which shape will be number 23?



Maths Question 16

Mrs Rhodes is organizing a trip to the seaside for the whole of Year 5 and Year 6.

In all there will be 178 children and 43 teachers and parents.



Pringles Coaches have 46 seat coaches for hire.

How many coaches will Mrs Rhodes need for the group?

A 6

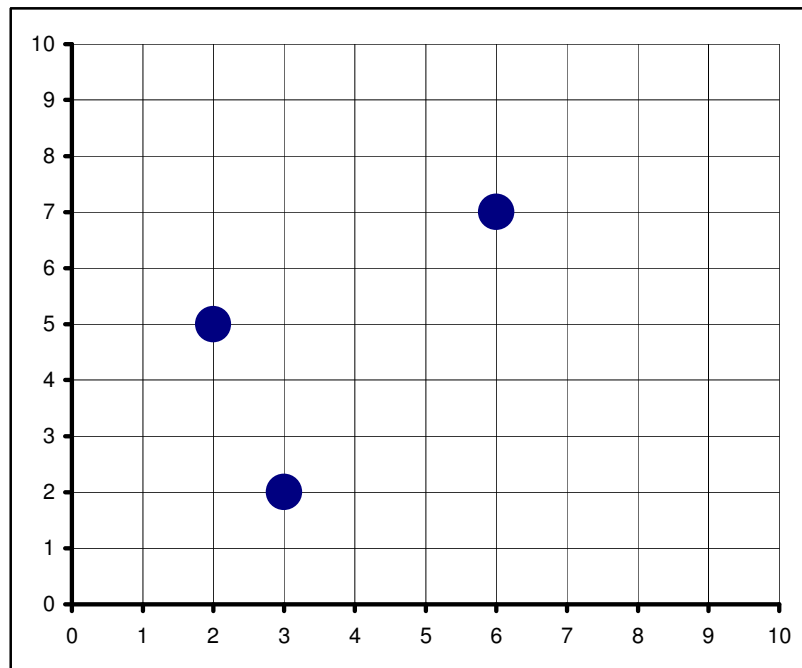
B 4.8

C 3

D 5

E 4

Maths Question 17



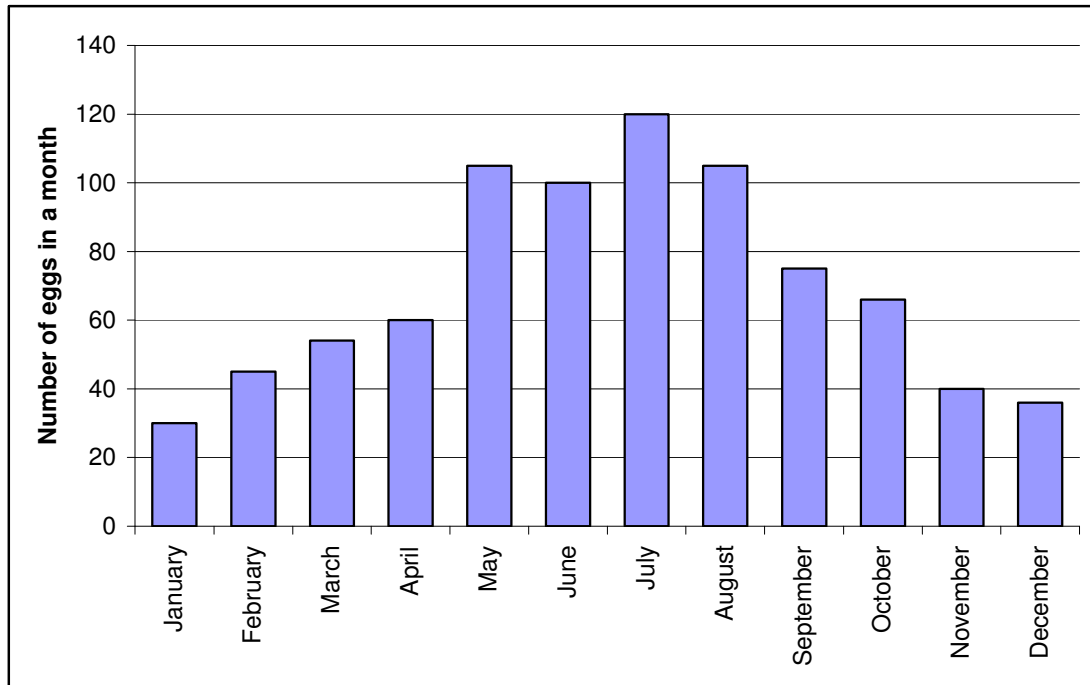
In a maths lesson Miss Rock shows the above grid on the whiteboard. It has three markers on it.

On which coordinate should she put a marker so that the four markers show the corners of a rectangle?

- A (3,2)
- B (6,7)
- C (8,3)
- D (4,7)
- E (7,4)

Maths Question 18

Mr Waller keeps records of the eggs that his chickens lay each month. This is the graph he drew:

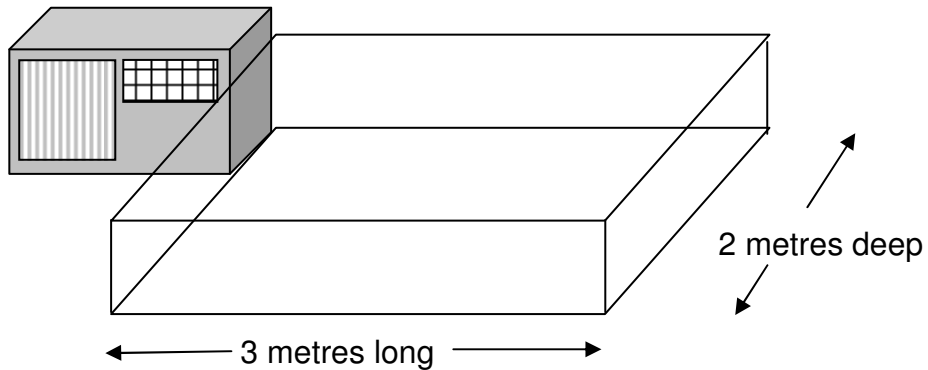


Which one of the following statements is **NOT** true?

- A The number of eggs in November is 40% of the eggs in June
- B There were 10 more eggs in July compared to June
- C Egg production in July is three times production in November
- D The chickens lay most eggs in July
- E Egg production is lower in the winter months

Maths Question 19

The chicken run shown below measures 3 metres by 2 metres. It is rectangular.



A reference book states that a single chicken needs an area of 1.3 m^2 in a run.

Which one of the following shows the correct way of calculating the number of chickens that can be housed in the run?

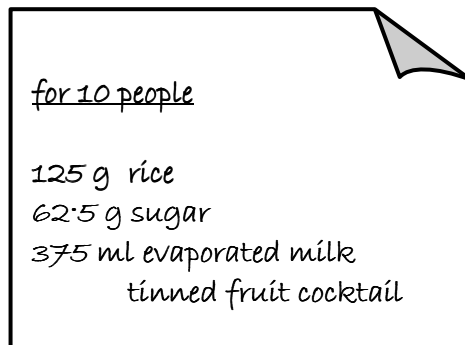
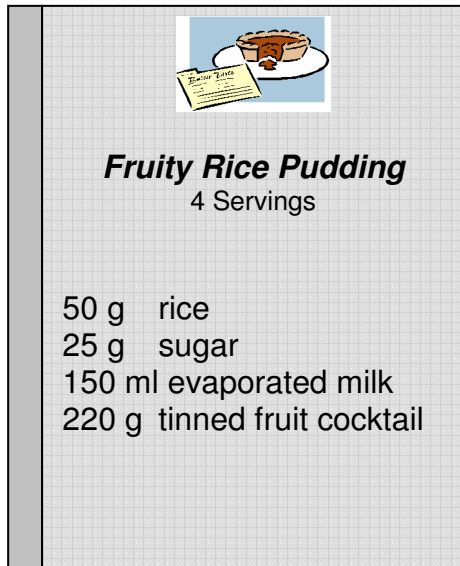
- A $(2 \times 3) \div 1.3$
- B $(2+3) \times 1.3$
- C $1.3 + 2 + 3$
- D $(1.3 \times 3) + (1.3 \times 2)$
- E $(2 + 3) \div 1.3$

Maths Question 20

A recipe for *Fruity Rice Pudding* is shown in a book. It is for 4 people.

Dennis Maran wants to make a larger pudding for 10 people in his scout group.

He has started to make a list of ingredients to help him make a pudding for 10 people.



How much tinned fruit cocktail does he need?

- A 220g
- B 440g
- C 500g
- D 88g
- E 550g