EXAM PAPERS PRACTICE

OXFORD

INTERNATIONAL AQA EXAMINATIONS

Topic Test: OxfordAQA International GCSE Mathematics Core

Number

Name: _____

Class: _____

Date: _____

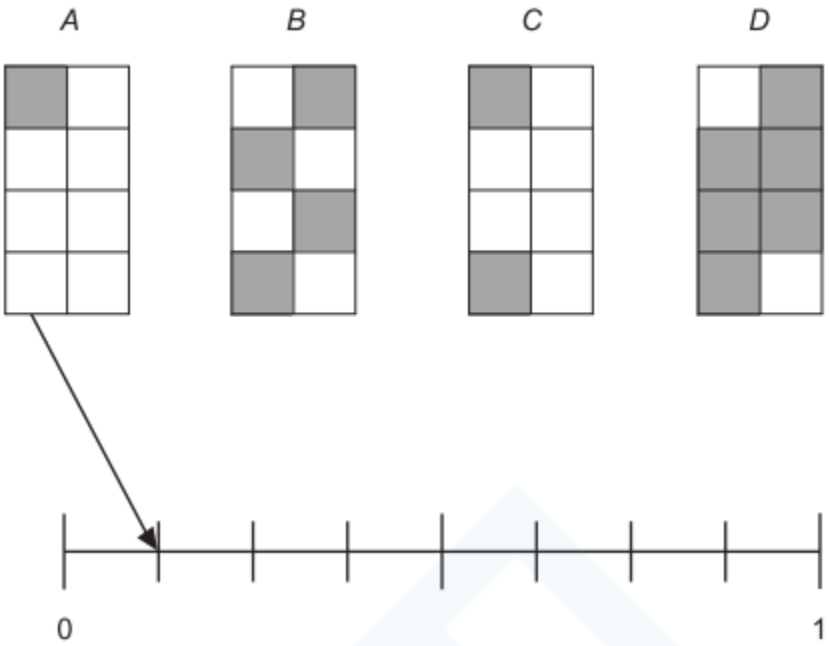
Time: **70 minutes**

Marks: **64 marks**

Comments:

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1 (a) Join each shape to the number line to show the fraction shaded.
The first one has been done for you.



(3)

(b) What fraction of this shape is shaded?



Give your answer in its simplest form.

_____

_____

Answer _____

(2)

(Total 5 marks)

2 (a) Write down a prime number between 50 and 60

Answer _____

(1)

(b) Write down the cube number between 20 and 30

Answer _____

(1)

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(c) Show that there are **exactly** four even square numbers between 200 and 500

(3)

(Total 5 marks)

3 (a) Write 3.574 to 1 decimal place.

Answer _____

(1)

(b) Put these decimals in order, starting with the smallest.

0.5 0.62 0.325

Answer _____ , _____ , _____

(1)

(c) Circle the **two** values that are equivalent to 0.8

8% $\frac{4}{5}$ 80% $\frac{8}{100}$ $\frac{1}{8}$

(2)

(Total 4 marks)

4 Tea bags are sold in boxes of 80 and boxes of 60

Box A	**Box B**
80 tea bags for $1.45	60 tea bags for $1.05

Which box is better value?

You **must** show your working.

Answer _____

(Total 3 marks)

5 Here are the amounts of some ingredients needed for 12 cupcakes.

12 cupcakes	
310 g	flour
112 g	butter
2	eggs

Complete the list of amounts needed for 30 cupcakes.

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(Total 3 marks)

6 Circle the number that is **not** a factor of 20

1 4 8 20

(Total 1 mark)

7 A school hall costs £200 to hire.
Parents get a 10% discount.
30 parents share the cost equally.

How much does each parent pay?

Answer £ _____

(Total 4 marks)

8 Ahmed has $50, rounded to the nearest dollar.

Circle the least amount he could have.

$45 $49 $49.50 $49.99

(Total 1 mark)

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9 Set P = {2, 3, 4, 5}

Set Q = {2, 4, 8}

Circle the elements of P ∪ Q

2, 4 | 2, 3, 4, 5, 8 | 3, 5 | 3, 5, 8

(Total 1 mark)

10 Brenda has 100 coloured beads.

27 are red.
41 are blue.
The rest are green.

She wants to make a necklace using all these beads.
She also wants to buy extra beads so she has the same number of each colour.

What is the least number of each colour she needs to buy?

Red _____

Blue _____

Green _____

(Total 4 marks)

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11 Kerry needs $\frac{2}{3}$ of a tank of petrol to drive home.

She has $\frac{5}{8}$ of a tank of petrol.

Does she have enough petrol to drive home?
You **must** show your working.

(Total 2 marks)

12 600 people visit a cinema.

$\frac{1}{4}$ go to screen 1.

40% go to screen 2.

The rest go to screen 3.

How many people go to screen 3?

Answer _____

(Total 5 marks)

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13 A cinema surveyed 250 customers.

(a) 125 were men.

What fraction were men?
Give your answer in its simplest form.

Answer _____

(2)

(b) 6% of these 250 customers paid for better seats.

How many of them paid for better seats?

Answer _____

(2)

(Total 4 marks)

14 Here are two calculations.

A	B
$4-\sqrt{20.25}$	$\frac{1.3^2+5.51}{-18}$

Which calculation has the smaller answer, A or B?

Show the answer to each calculation.

Answer _____

(Total 2 marks)

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15 A toy is made from red bricks and yellow bricks.

Number of red bricks : number of yellow bricks = 5 : 2
There are 210 **more** red bricks than yellow bricks.

How many red bricks are in the toy?

Answer _____

(Total 3 marks)

16 Work out $\frac{3}{4} + \frac{7}{11}$

Give your answer as a mixed number.

You **must** show your working.

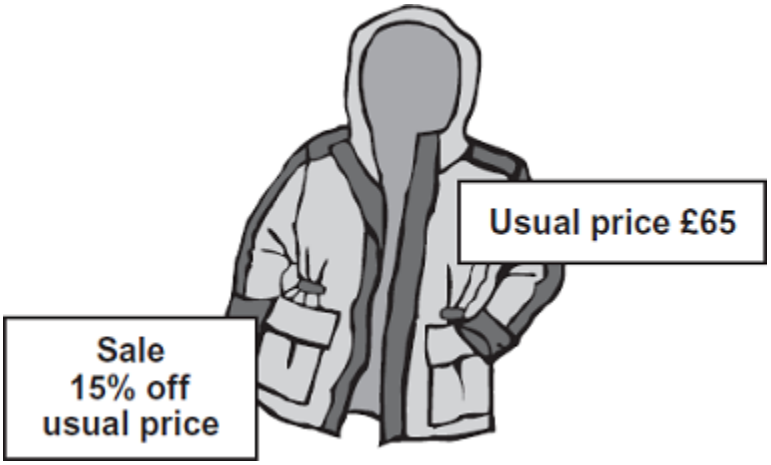
Answer _____

(Total 3 marks)

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17



Work out the sale price.

Answer £ _____

(Total 3 marks)

18 A tiling pattern is made from 48 octagons and 54 squares.

One quarter of the octagons are blue.

One third of **all** the shapes are blue.

How many blue squares are there?

Answer _____

(Total 3 marks)

19 (a) Write 8.36×10^7 as an ordinary number.

Answer _____

(1)

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(b) Calculate $560\,200 - 5.13 \times 10^5$

Give your answer in standard form.

Answer _____

(2)

(Total 3 marks)

20 (a) Write 36 as the product of prime factors.
Give your answer in index form.

Answer _____

(3)

(b) Work out the Highest Common Factor (HCF) of 36 and 81.

Answer _____

(2)

(Total 5 marks)

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