

CANDIDATE
NAME

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CENTRE
NUMBER

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CANDIDATE
NUMBER

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Secondary 1

09/08/24

MATHEMATICS

August 2024

Paper 1

1 hr

You must answer on the question paper.

You will need: Black or Blue Pen

INSTRUCTIONS

- Answer **all** questions.
- Use the black or dark blue pen.
- Write your name, centre number and candidate number in the boxes at the top of the page.
- Write your answer to each question in the space provided
- Do **not** use an erasable pen or correction fluid.
- You should show all your working in the booklet.
- You are **not** allowed to use a calculator.

INFORMATION

- The total mark for this paper is 50.
- The number of marks for each question or part question is shown in brackets [].

For Teacher's Use	
Page No	Marks
1	
2	
3	
4	
5	
6	
7	
Total	

This document has **9** pages. Any blank pages are indicated

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1 Write the letter for each calculation in the correct column of the table. One has been done for you.

A
 7×6

B
 $7^5 \times 7$

C
 $7^6 \div 7^0$

D
 $7^2 \times 7^3$

Equal to 7^6	Not equal to 7^6
	A

[2]

2 Draw a line to match each calculation to its answer. One has been done for you.

5×10^{-1}

0.05×10^4

$5 \div 10^{-3}$

$0.5 \div 10^2$

0.005

0.5

500

5000

[1]

3 Which of the following numbers are not divisible by 6? Write the letters of the correct answers in the space provided.

- a. 6, 486
- b. 3, 560
- c. 8, 694
- d. 68, 248

[1]

- 4 From question 3, which of them are divisible by 8? Write the letters of the correct answers in the space provided.

[1]

.....

- 5 Look at the numbers in the rectangle below. Which of them are Prime Numbers? Circle all the Prime Numbers.

5	12	27	7
29	17	2	25
24	18	8	2
16	3	49	99

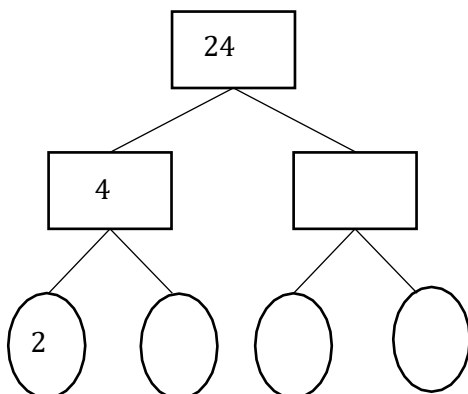
[2]

- 6 Find the HCF and LCM of 24 and 36. Show your working.

[2]

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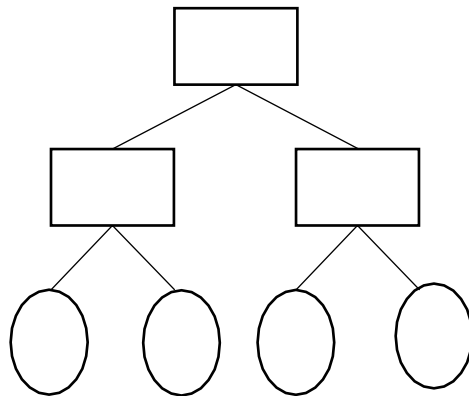
- 7 Complete the prime factor tree for 24



[1]

.....

8 Complete the prime factor tree for 36



[2]

9 Circle the correct answer, A, B, C or D.

a 783 rounded to 1 s.f.

A 7 B 8 C 700 D 800

b 58.6212 rounded to 3 s.f.

A 58.6 B 58.621 C 59.6 D 0.586

c 0.0894 rounded to 2 s.f.

A 0.08 B 0.089 C 0.09 D 0.1

[3]

10 There were 12 435 male and 9475 female supporters at a baseball match. How many supporters were there altogether? Give your answer correct to two significant figures.

[2]



11 Write 0.1 or 0.01 in each space to make the calculations correct.

a $0.9 \times \underline{\hspace{1cm}} = 0.009$

b $24 \div \underline{\hspace{1cm}} = 240$

c $2.7 \div \underline{\hspace{1cm}} = 270$ [1]

12 Work out. $4 \div 102$ _____ [1]

13 Write 0.8 % as a decimal. _____ [1]

14 Draw a ring around each number that is a common factor of 30 and 75

5 15 25 75 [1]

15 Eva says, 'I know that 14107 is not divisible by 3. I do not need to do the calculation $14\,107 \div 3$ to show this.' Write down how Eva shows that 14107 is not divisible by 3.

[2]

16 Write the correct inequality, < or > or =, between each pair of fractions.

a $7\frac{3}{4} \text{ --- } \frac{61}{8}$

b $-\frac{55}{12} \text{ --- } -4\frac{1}{2}$ [2]

17 Write these fractions in order of size, starting with the smallest: $\frac{2}{3}, \frac{7}{12}, \frac{5}{8}$.

Show all your working.

[3]



18 Circle the fractions in this list that are equal to recurring decimals.

$$\frac{5}{6}$$

$$\frac{4}{5}$$

$$\frac{3}{8}$$

$$\frac{7}{15}$$

$$\frac{4}{9}$$

$$\frac{3}{20}$$

[2]

19 Without using a calculator, work out the following. Show your working.

a $4 \times 5.8 \times 2.5$ _____
 _____ [2]

b 6.8×9.9 _____
 _____ [2]

20 Work these out. Write your answers in their simplest form and as a mixed number when possible.

a $2\frac{2}{3} + 5\frac{7}{9}$

b $\frac{2}{3} \times \frac{6}{7}$ _____

c $\frac{4}{5} \div \frac{2}{9}$ _____
 _____ [3]

21 Work out.

$$2.73 \times 20 \times 0.2 - 0.73 \times 40 \times 0.1$$

[2]

- 22** a. The value of a car decreases by 15% each year. The value now is \$32 000. a Find the value in one year's time.

_____ [2]

- b. Find the value in two year's time.

_____ [1]

- 23** a Find 135% of 40 kg. _____ [1]

- b Find 0.8% of 7000 litres. _____ [1]

- 24** a Write \$70 as a percentage of \$80. _____ [1]

- b Write 21 g as a percentage of 12 g. _____ [1]

- 25** a Write 2 metres as a percentage of 80 cm. _____ [1]

- b Write 6 minutes as a percentage of 2 hours. _____ [1]

- 26** The price of a TV is reduced by 40%.

After the reduction, the price is \$150.

Circle the price before the reduction from this list.

Show your working.

\$210

\$240

\$250

\$375

[2]

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