

Primary 4 · Mathematics · P4 Advanced Papers

Mathematics practice 1

Time **60 min** Marks **45** Questions **30**

Name _____ Class _____ Date _____ Score _____ / 45

- Write your answers in the units stated. All diagrams are not drawn to scale unless otherwise stated.
- Section A carries 1 mark each. Section B carries 2 marks each, and marks are given for working, so show your method.

Section A

15 marks

Questions 1 to 15 carry 1 mark each.

- 1 Round 4738 to the nearest ten. [1]

ANSWER _____

- 2 A kitchen scale is marked in kilograms from 0 to 5, with a mark every 0.5 kg. The pointer for a tin of rice rests exactly halfway between the 2.5 mark and the 3 mark. What is the mass of the tin, as a decimal? [1]

ANSWER _____ kg

- 3 How many prime numbers are less than 23? [1]

ANSWER _____ prime numbers

- 4 Find the missing number: $4\frac{1}{4} - \frac{?}{8} = 1\frac{3}{8}$. [1]

ANSWER _____

- 5** In 352.76, the digit 7 is in the _____ place. [1]
- _____
- _____
- ANSWER _____
- 6** Round 28.996 to 2 decimal places. [1]
- _____
- _____
- ANSWER _____
- 7** The daily wages of six workers at a bakery are \$42, \$35, \$42, \$38, \$42 and \$50. What is the mode? [1]
- _____
- _____
- ANSWER _____
- 8** Two parallel lines are cut by one transversal. The angles at the upper intersection are p (top left), q (top right), r (bottom right) and s (bottom left). The angles at the lower intersection are w (top left), x (top right), y (bottom right) and z (bottom left). Write down one pair of alternate angles. [1]
- _____
- _____
- ANSWER _____
- 9** Line PQ points the same way as line RS, and a third line crosses both of them. Line VW slopes differently and meets PQ. Which pair of lines is parallel? [1]
- _____
- _____
- ANSWER _____
- 10** A rope is cut into 3 pieces. The longest is half of the whole rope and the shortest is one tenth of the whole rope. The piece left over is four fifths of a metre long. How long is the whole rope? [1]
- _____
- _____
- _____
- _____
- ANSWER _____ m

- 11** A bar graph of goals in a tournament shows 9 goals in the first 30 minutes, 24 goals between the 31st and 60th minutes, and 7 goals after the 90th minute. The bar for the 61st to 90th minute has not been drawn. 62 goals were scored altogether. How tall should that bar be? [1]

ANSWER _____ goals

- 12** These numbers fall by 2 at each step, reading across the rows. In which column does 26 appear? [1]

A	B	C	D
86	84	82	80
78	76	74	72
70	68	66	64
62	60	...	...

ANSWER _____

- 13** A rectangle measures 20 cm by 14 cm. A square of side 4 cm is cut out at each of two corners. Find the perimeter of what remains. [1]

ANSWER _____ cm

- 14** Two squares overlap in a square of side 2 cm. The larger square has sides of 6 cm and the smaller has sides of 5 cm. The shaded part is everything that lies in exactly one of the two squares. Find the shaded area, then state the side of the smaller square. [1]

ANSWER _____ cm

- 15** Priya stands at a point and faces south-east. She makes a quarter turn anti-clockwise. [1]
Which direction is she facing now?

ANSWER _____

Section B

30 marks

Questions 16 to 30 carry 2 marks each. Show your working. Marks are given for a correct method.

- 16** What is the 10th common multiple of 8 and 12? [2]

ANSWER _____

- 17** Complete the pattern: 9, 8.992, 8.984, _____, 8.968, 8.960, _____. [2]

ANSWER _____

- 18** Arrange in ascending order: $\frac{2}{5}$, 0.42, 0.405, $\frac{3}{8}$. [2]

ANSWER _____

- 19** Two parallel lines are cut by a transversal. The angle between the transversal and the upper line, on the right of the transversal and above the line, is 115° . Find the angle between the transversal and the lower line, on the left of the transversal and above that line. [2]

ANSWER _____°

- 20** The dotted line down the middle is a line of symmetry. Write S in the two empty squares that must be shaded to complete the pattern. [2]

1	2	:	3	4
shaded		:		
	shaded	:		
		:		
shaded		:		shaded

ANSWER _____

- 21** Every month, Hana saves half of her salary and spends half of what remains on food. She spends \$650 on food each month. How much does she save in 12 months? [2]

ANSWER _____

- 22** This year, Mrs Tan is 4 times as old as her daughter. In 20 years, she will be twice as old as her daughter. How old is her daughter this year? [2]

ANSWER _____ years old

- 23** Rectangle ABCD is split into four smaller rectangles P, Q, R and S by one horizontal and one vertical line. P is top left, Q top right, R bottom right and S bottom left. The area of P is 24 cm^2 , of Q is 27 cm^2 and of R is 54 cm^2 . P and Q have the same height, and Q and R have the same width. Find the area of S. [2]

ANSWER _____ cm^2

- 24** On a quiz show, Devi wins \$10 for each question she gets right. She gets 4 questions right for every 7 she is asked. She won \$200. How many questions was she asked? [2]

ANSWER _____ questions

- 25** A stall sells 3 caps and 2 shirts for \$100. One cap and one shirt cost \$43 together. How much is one shirt? [2]

ANSWER _____

- 26** I am a number between 30 and 80. I have an odd number of factors, and none of my factors is even. What number am I? [2]

ANSWER _____

- 27** In a group of 24 pupils, $\frac{2}{3}$ were boys. The same number of boys as girls then joined. [2]
After that, $\frac{3}{5}$ of the group were boys. How many girls joined?

ANSWER _____ girls

- 28** The average of 3 different odd numbers is 25. What is the largest any one of them can be? [2]

ANSWER _____

- 29** A bar graph shows how many pets the children in a class have. 9 children have no pets, 6 have one, 3 have two, 4 have three and 2 have four. How many pets do the children have altogether? [2]

ANSWER _____ pets

- 30** A tessellation is built from one tile: a triangle joined to a square along one full side. The tile is repeated by turning it, with no gaps and no overlaps. State the two shapes the tile is made from, and say how many tiles meet at each corner of the square. [2]

ANSWER _____

END OF PAPER