



Primary 5 · Mathematics · P5 Advanced Papers

Mathematics practice 1

Time **100 min** Marks **60** Questions **18**

Name _____ Class _____ Date _____ Score _____ / 60

1. Show your working in the space below each question and write your answer with the unit.
2. All diagrams are not drawn to scale. Fractions must be in their simplest form. Marks are given for a correct method.
3. The number of marks is shown in brackets at the end of each question or part.

Paper 2

60 marks

Questions 1 to 18. The paper carries 60 marks.

- 1** Farah has fewer than 40 stickers. When she puts them into packs of 5, she has 2 left over. When she tries to put them into packs of 7, she is 3 short of the next full pack. How many stickers does she have? [2]

ANSWER _____ stickers

- 2** There are 6 people at a gathering. Each person shakes hands with every other person exactly once. How many handshakes are there? [2]

ANSWER _____ handshakes

- 3** A tin holds 50-cent coins and 10-cent coins. There are 24 more 10-cent coins than 50-cent coins. The 50-cent coins are worth \$4 more than the 10-cent coins altogether. How many 50-cent coins are there? [2]

ANSWER _____ coins

- 4** A square has sides of 16 cm. Two triangles inside it are left unshaded. One has a base of 8 cm and a height of 7 cm. The other has a base of 4 cm and a height of 7 cm. The rest of the square is shaded. Find the shaded area. [2]

ANSWER _____ cm^2

- 5** A rectangular floor measures 42 m by 25 m. It is covered by tiles, each made of a black square joined to a white rectangle that is twice as long as the black square. Every tile is 6 m long and 1 m deep, and the tiles are laid in rows with the long side horizontal. Find the total area covered by the white rectangles. [2]

ANSWER _____ m^2

- 6** Priya has exactly enough money for 10 files and 15 pens. The same amount buys exactly 6 files and 21 pens. If she spends it all on files, how many files can she buy? [3]

ANSWER _____ files

- 7** Amir jogs round the park every 3 days and Bala jogs round it every 4 days. They both jogged on 8 March. On which date in March do they next both jog? [3]

ANSWER _____

- 8** The height of a cuboid is twice its breadth. Its length is 3 times its height. Its volume is 324 cm^3 . Find the breadth. [3]

ANSWER _____ cm

- 9** Five 2 cm cubes are glued into an L. Four cubes make a straight row and the fifth sits on top of one end cube. Find the total surface area of the solid. [3]

ANSWER _____ cm^2

- 10** Mr Tan earns \$1.60 for every box of tea he sells, plus an extra \$12 for every complete set of 30 boxes. What is the smallest number of boxes he must sell to earn at least \$740? [4]

ANSWER _____ boxes

- 11** Pupils travel in three coaches, A, B and C. The number in A to the number in B is 4 : 5. The number in B to the number in C is 2 : 1. There are 12 more pupils in A than in C.
(a) What is the ratio of the pupils in A to the pupils in C? [2]
(b) How many pupils are in B? [2]

ANSWER _____

- 12** A coach carries 50 passengers, of whom 60% are women. At a stop, 12 women and some men get off. Then 10 women and 2 men get on. There are now 40% more women than men. How many men got off? [4]

ANSWER _____ men

- 13** A rectangle measures 36 cm by 24 cm. A straight line across it is 14 cm from one short side. The shaded region is the whole rectangle except a triangle of base 10 cm and height 24 cm. Find the shaded area. [4]

ANSWER _____ cm²

- 14** Mr Sim posted two kinds of parcel. Each small parcel cost \$20 and each large parcel cost \$15. He posted three times as many large parcels as small ones and paid \$1170 altogether. [4]

(a) How many small parcels did he post? [2]

(b) How much more did he spend on large parcels than on small ones? [2]

ANSWER _____

- 15** AB is parallel to CD. A transversal cuts them, and the interior angle it makes with AB is 118° . A triangle sits between the two parallel lines. One of its angles is the alternate angle to that 118° angle, and another is 34° . Find the triangle's third angle. [4]

ANSWER _____ $^\circ$

- 16** Two parallel lines are cut by a transversal. One angle formed is 108° . Find the angle that sits next to its alternate angle on the straight line. [4]

ANSWER _____ $^\circ$

- 17** A fruit seller had 20 more mangoes than pears at first. After selling half of the mangoes and $\frac{2}{3}$ of the pears, he had 12 more mangoes than pears left. [5]

- (a) How many pears did he have at first? [3]
 (b) What fraction of the fruit he had left were pears? [2]

ANSWER _____

- 18** In a class, 40% of the pupils are boys. 108 erasers are shared out, 3 to each boy and 2 to each girl. [5]

- (a) How many boys are in the class? [2]
 (b) $66\frac{2}{3}\%$ of the boys give $\frac{2}{3}$ of their own erasers to the girls. How many erasers do these boys give away? [3]

ANSWER _____

END OF PAPER