

Primary 3 · Mathematics · Advanced Maths Practice

Mixed problems 4

Time **45 min** Marks **36** Questions **12**Name _____ Class _____ Date _____ Score _____ / **36**

1. Section A has 6 multiple-choice questions. Write the number of the correct option.
 2. Section B has 6 questions. Show your working in the space provided.
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Section A

Questions 1 to 6 carry 2 marks each.

- 1** Which of the following fractions is **not** between $\frac{3}{8}$ and $\frac{5}{6}$? [2]

(1) $\frac{1}{2}$

(2) $\frac{2}{3}$

(3) $\frac{3}{4}$

(4) $\frac{7}{8}$

- 2** What are the next two numbers in this pattern? [2]

4, 9, 8, 13, 12, 17, 16, ...

(1) 15, 20

(2) 21, 20

(3) 20, 25

(4) 21, 26

- 3** Three parcels are weighed in pairs. [2]

The book and the toy weigh 430 g together.

The toy and the mug weigh 510 g together.

The mug and the book weigh 480 g together.

How heavy is the toy on its own?

- (1) 200 g
 - (2) 230 g
 - (3) 250 g
 - (4) 280 g
- 4** P, Q and R stand for three different digits. A three-digit number reads P, then Q, then P again. Multiplying it by 4 gives the four-digit number 1 R 8 8. What is $P + Q + R$? [2]
- (1) 9
 - (2) 12
 - (3) 15
 - (4) 18
- 5** A pencil tin holds pencils in 5 different colours. Ben takes 2 pencils from the tin. How many different pairs of colours can he end up with? [2]
- (1) 10
 - (2) 15
 - (3) 20
 - (4) 25
- 6** A round running track is 600 m long. A cone is placed every 15 m around the track, and a marker is placed every 5 m between two neighbouring cones. How many markers are there? [2]
- (1) 80
 - (2) 120
 - (3) 160
 - (4) 200

Section B

Questions 7 to 12 carry 4 marks each. Show your working.

- 7** Lina saved money for 12 days. She saved \$8 on the first day, \$11 on the second day and \$14 on the third day. The pattern carries on. How much did she save altogether? [4]

ANSWER _____

- 8** Jugs A, B and C together hold exactly enough water to fill one tank. [4]
 Pouring in only jug A leaves the tank 180 ml short.
 Pouring in only jug B leaves it 240 ml short.
 Pouring in only jug C leaves it 300 ml short.
 How much water does the tank hold?

ANSWER _____ ml

- 9** A3 and 6B stand for two-digit numbers. [4]

$$\frac{A3}{6B} = \frac{1}{2}$$

What is $A \times B$?

ANSWER _____

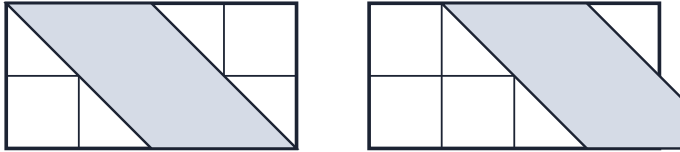
- 10** Farah got home from a trip at 3 p.m. on Friday. She had left home 100 hours earlier. On what day and at what time did she leave? [4]

ANSWER _____

- 11** A rectangle has a perimeter of 48 cm. Its length and breadth are different whole numbers. What is the greatest possible area of the rectangle? [4]

ANSWER _____ cm^2

- 12 Figure A shows a rectangle made of 8 identical squares, with a shaded band across it. [4]
 In Figure B the band has been slid one square to the right, so a piece of it now hangs outside the rectangle and a piece of the rectangle is uncovered. What fraction of Figure B is shaded?



ANSWER _____

END OF PAPER