EXAM-STYLE CLASS TEST

MARKS	DURATION	QUESTIONS
36	55 minutes	3

Name: _____ Class: _____

Date: _____

MARK ____ / 36

INSTRUCTIONS AND INFORMATION

1. Answer **ALL** the questions in this question paper.
2. Answer QUESTION 1 by **circling** the letter (A–D) in the answer grid at the end of that section.
3. Show **ALL** calculations clearly.
4. Show all units where applicable.
5. Number the answers correctly according to the numbering system used in this question paper.
6. A non-programmable calculator may be used, unless stated otherwise.
7. Write neatly and legibly.

QUESTION 1 [10 MARKS]

Four options are given as possible answers to the following questions. Choose the correct answer and circle the letter (A–D) in the grid at the end of this section. If you want to change your choice, put a cross through the wrong letter and circle your new choice.

1.1 R240 is shared in the ratio 3 : 5. The SMALLER share is ... (1)

A) R90 **B)** R80
C) R48 **D)** R150

1.2 The ratio 20 : 30 in its simplest form is ... (1)

A) 20 : 30 **B)** 10 : 15
C) 1 : 2 **D)** 2 : 3

1.3 A car travels 240 km in 3 hours. Its average speed is ... (1)

A) 720 km/h **B)** 80 km/h
C) 243 km/h **D)** 60 km/h

1.4 If 5 pens cost R30, then 8 pens cost ... (1)

A) R6 **B)** R48
C) R38 **D)** R240

1.5 Concrete is mixed in the ratio cement : sand = 1 : 4. For 20 kg of sand you need ... (1)

A) 80 kg **B)** 4 kg
C) 16 kg **D)** 5 kg

1.6 A recipe for 4 people uses 600 g of rice. For 6 people you need ... (1)

A) 400 g **B)** 1 200 g
C) 900 g **D)** 800 g

1.7 Two quantities in the ratio 2 : 3 have a total of 45. The larger is ... (1)

A) 27 **B)** 30

C) 18 **D)** 15

1.8 A tap fills 18 ℓ in 3 minutes. In 7 minutes it fills ... (1)

A) 42 ℓ **B)** 22 ℓ

C) 126 ℓ **D)** 6 ℓ

1.9 A RATE differs from a ratio because a rate compares quantities ... (1)

A) of the same kind **B)** that are always whole numbers

C) that are always equal **D)** of DIFFERENT kinds

1.10 If 3 workers build a wall in 8 days, then 6 workers (working at the same rate) take ... (1)

A) 2 days **B)** 16 days

C) 4 days **D)** 8 days

ANSWER GRID — CIRCLE YOUR ANSWERS FOR QUESTION 1

1.1	A	B	C	D
1.2	A	B	C	D
1.3	A	B	C	D
1.4	A	B	C	D
1.5	A	B	C	D
1.6	A	B	C	D
1.7	A	B	C	D
1.8	A	B	C	D
1.9	A	B	C	D
1.10	A	B	C	D

QUESTION 2 [11 MARKS]

Answer the questions below. Show ALL your calculations.

2.1 Write the ratio 750 : 350 in its simplest form, and hence determine the larger share when R2 200 is divided in that ratio. (3)

2.2 Divide 240 in the ratio 5 : 3 : 4. **(4)**

2.3 Ashley, Sipho and Zoe are aged 5, 4 and 2. They share R880 in the ratio of their ages. Calculate how much MORE Ashley receives than Zoe. **(4)**

QUESTION 3 [15 MARKS]

Answer the questions below on rate.

3.1 A worker earns R900 for 6 hours of work. Calculate the rate per hour, and then what the worker earns for a 37-hour week. **(4)**

3.2 Rice is sold as 2 kg for R50 or 3 kg for R72. Determine which is the better buy, and by how much per kilogram. **(4)**

3.3 A car travels at an average speed of 106 km/h for 2 hours 45 minutes. Calculate the distance travelled. **(3)**

3.4 At what constant speed must that car travel to cover the same distance in 2 hours 35 minutes? Give your answer correct to TWO decimal places. **(4)**

TOTAL: 36 marks

This question paper consists of 3 questions.

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