YEAR 2013

REVISION OF EXTRACTED QUESTIONS FROM PRIMARY LEAVING EXAMINATION 2013
MATHEMATICS
Duration: 2 hours

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1 Add: 2,045 + 1,055 + 900   (2 marks)

2 Write in words: 3,005   (2 marks)

3 Add: 200g + 0.04kg = _____ dag   (2 marks)

4 Find the size of angle a in the figure below: (2 marks)

5 Calculate: 0.84 × 25   (2 marks)

6 Simplify completely: $\frac{3}{7} \div \frac{9}{14}$ (2 marks)

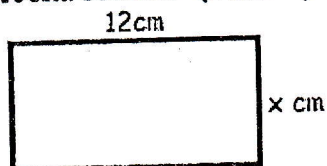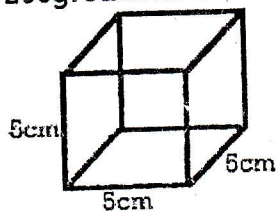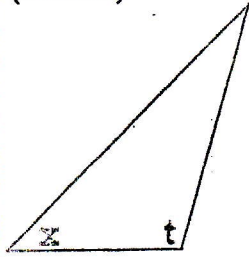|	
7 Find the value of m in the equation: 3m – 4 = 5 (2 marks)	**8** Write the next two numbers in the following sequence: (2 marks) 1, 4, 9, _____, _____
9 Divide 10, 000Rwf in the ratio 3·7 (2 marks)	**10** Decrease 200kg by 20% (2 marks)
11 The perimeter of the rectangle below is 40cm. Find x. (2 marks) 12cm x cm	**12** The cost of 2kg of beans is 620Rwf. Find the cost of 8kg of the beans. (2 marks)
13 A number is increased by 20%. If the new number is 2,400, find the original number. (2 marks)	**14** Find and fill in the missing numbers in the table below. (2 marks) | 4 | 7 | 6 | ____ | | 9 | ____ | 13 | 21 |
15 The solid below is of a cube with a mass of 200g. Find its density. (2 marks) 5cm 5cm 5cm	**16** Find the highest common factor (HCF) of 12, 15 and 21. (2 marks)

Question 14 table:

4	7	6	____
9	____	13	21

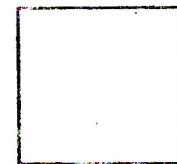|	
17 Using a protractor measure angle x and t. (2 marks) (a) Angle x = (b). Angle t =	18 A man buys a car at 3,000,000Rwf and sells it at 3,900,000Rwf. What is the percentage profit? (2 marks)
19 Simplify completely: $1\frac{1}{4} \times 1\frac{1}{15}$ (2 marks)	20 Find the circumference of a circle whose radius is 5cm and $\pi = 3.14$ (2 marks)
21 If a = ⁻1, b = 2 and c = ⁻3, find the value of: ab + 2ac (2 marks)	22 How many lines of symmetry does a square have? (1 mark) Draw the lines of symmetry in the square below. (1 mark)
23 Calculate: 2h 12 min − 1h 50min (2 marks)	24 How many 500ml bottles can be filled from 2 litres of water? (2 marks)

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	distance of 1,000m. How many poles are fixed? (2 marks)		39. Find the three numbers. (3 marks)
27	Calculate and express the answer in base ten: $111_{two} + 102_{three}$ (3 marks)	28	Six (6) men complete working in 4 days. How many days will 8 men complete the same work? (3 marks)
29	Arrange the following in ascending order: (3 marks) $$\frac{3}{7}, \frac{5}{14}, \frac{13}{28}$$	30	Set E = { 2, 3, 4, 6, 7 } and set F = { 1, 3, 5, 7, 8 }. Represent set E and set F on a Venn diagram showing the members of the different subsets. (3 marks)

31 (a). Solve: $\frac{2x}{4} - \frac{x+1}{3} = 2$ (3 marks)

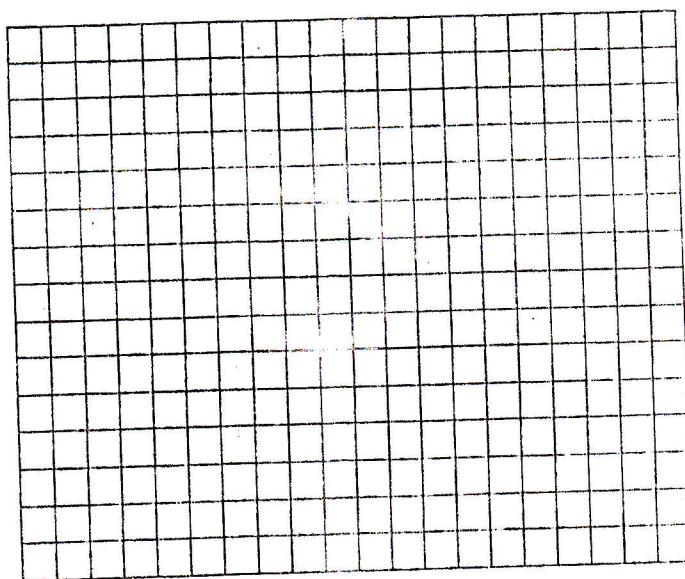(b). Find the size of each angle in the figure below: (4 marks)
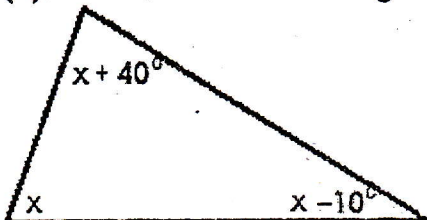
32	(a). Simple interest of 20,000Rwf was made for two years at 10% profit per year. Find the capital. (3 marks)
	(b). 8kg of beans costing 250Rwf per kilogram are mixed with 12kg of another type of beans. If the cost of the mixed beans is 280Rwf per kilogram, find the cost of 1kg of the second type of beans. (4 marks)
33	Town A and B are 300km apart. A car leaves town A at 8:00am for town B. At the same time a bus leaves town B for town A. The speed of the car is 90km/hr. And the speed of the bus is 60km/hr. (a). At what distance in km from town A will the car meet the bus? (5 marks) (b). At what time do the two vehicles meet? (2 marks)
34	The following are the coordinates of points: (0,0), (1,2) and (3,6). (a). On the graph paper, draw y-axis and x-axis (graduate the axes). (2 marks) (b). Plot these points on the graph and join them with a line. (4 marks) (c). If A (x,3) is a point on the graph, find x. (1 mark)

35 The following are ages of 10 people: 35, 33, 36, 42, 33, 35, 40, 33, 40, 33.
Make a frequency table and calculate the mean age. (7 marks)

"END"