Name: _____   **Date:** _____

Mathematics

Ratio and proportion

Solve these problems:

1. 1:2 and 3:6 are equivalent ratios (they both have the same proportions).

   identify the 2 ratios that share the same proportions.

   a. 3:9   2:10

   b. 5:10   3:6

   c. 10:2   6:2

2. Carry on this sequence of ratios: 3:4, 6:8, 9:12, _____, _____

3. In my pocket I have 3 red dice and 2 plastic army men. What is the ratio of dice to army men? _____

4. What is 5:25 in its simplest form? _____

5. On a treasure map of the school, I am using 1cm for every 10m. The school is 50m wide. How wide would the

   school be on my treasure map? _____ cm

6. I answered 2 out of every 3 questions correctly in a test. The test had 9 questions in it altogether. How many

   questions did I answer correctly? _____

7. If I save $2 out of every $6 of my weekly allowance, how much will I save from $120? _____

8. On a map, the scale is 3 cm equals 225 km. Two cities are 7 cm apart on the map. What is their actual distance

   apart from each other? _____

9. **Complete the following table.**

Percentage	Decimal fraction	Common fraction
a. 15%	0.15	
b. 125%		125/100
c. 2%	0.02	
d. 0.2%		1/500
e. 75%		75/100

10. In a netball match, Kelsie scored 40% of the times she got the ball. If she scored 26 goals how many times did she get the ball? _____

11. Mrs Keshinro purchased a school bag for $600.00 and a pair of pants for $780.00. The GCT is 15%, What is her total bill? _____

12. Caleb-Anthony made 25 drawings, Mrs McNaughton Marked 19 of them as excellent and the remainder as good. What percentage of his drawings were good? _____

13. The price of a radio increases from $5600 to $7,200, What is the percentage increase? _____

14. An article was marked at $3000. Amelia wanted to purchase it for $1500. How many per cent discount did she ask for? _____

15. Last week pineapples were being sold at HiLo Supermarket for $60 per kilogram. This week pineapples are marked at $30 per Kilogram. What is the percentage decrease? _____