**Year 6/7MST Practice Exam**

**Name:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Class:** \_\_\_\_\_\_\_\_\_ **Teacher:** \_\_\_\_\_\_\_\_\_\_\_\_

1. **Simplify the following ratios:**
2. 9:12 =
3. 14:7 =
4. 27:9 =
5. 442:884 =
6. 72:90 =
7. **Simplify the following ratios:**
8. 900g:1.2kg =
9. 40cm:3m =
10. 110ml:1L =
11. 30mins:2hrs =
12. 180sec:1min =
13. **Find the missing numbers:**
14. 7:8 = \_\_ :40
15. 16:32 = 1: \_\_
16. 9:5 = \_\_ :45
17. 44:12 = 11: \_\_
18. 100:100 = 1: \_\_
19. **Which point divides the lines 1-8 in the following?**

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1. 2 3 4 5 6 7 8

**a** 6:8 \_\_\_ **b** 4:10 **c** 4:3 \_\_\_ **d** 2:12 **e** 2:5 \_\_\_ **f** 5:2 \_\_\_

1. **Share $1000 in the following ratios.**
2. 2:3 =
3. 3:1 =
4. 1:4 =
5. 1:1 =
6. 3:5 =
7. **The ratio of pink balloons to orange balloons is 2:3.**
8. Find the number of orange balloons if there are:
9. 40 pink balloons -
10. 100 pink balloons -
11. 250 balloons in total -

b) Find the number of balloons in total if there are:

i) 15 orange balloons -

ii) 350 pink balloons –

1. **Show the following rates in the simplest form:**
2. 12m length of material costs $30 -
3. The cost of a 12kg gas cylinder was $40 -
4. South Africa needs 300 runs in 50 overs to win a cricket match -
5. The cost of a 15 minute telephone call was $22.50 –
6. **If a jet travels 800km/hr, find the distance it will travel in:**
7. 4 hours -
8. 30 mins -
9. 30 secs -