1. Find the equation representing the following number line diagram

| 0/1 | 1/15 | 2/15 | 1/5 | 4/15 | 1/3 | 2/5 | 7/15 | 8/15 | 3/5 | 2/3 | 11/15 | 4/5 | 13/15 | 14/15 | 1/1 |

(i) $\frac{3}{5} + \frac{2}{5} = \frac{1}{1}$ (ii) $\frac{2}{3} - \frac{2}{5} = \frac{4}{15}$ (iii) $\frac{11}{15} + \frac{8}{15} = \frac{19}{15}$ (iv) $\frac{4}{5} - \frac{2}{5} = \frac{2}{5}$ (v) $\frac{2}{3} - \frac{3}{5} = \frac{1}{15}$

2. Find the difference between the values of numbers at point A and B

| 0/1 | 1/5 | 2/5 | 3/5 | 4/5 | 1/1 |
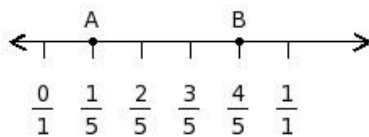
(i) $(\frac{-3}{5})$ (ii) $(\frac{-3}{7})$ (iii) -1   (iv) $(\frac{-1}{5})$

3. Find the equation representing the following number line diagram

| 0/1 | 1/9 | 2/9 | 1/3 | 4/9 | 5/9 | 2/3 | 7/9 | 8/9 | 1/1 |

(i) $\frac{8}{9} + \frac{1}{3} = \frac{11}{9}$ (ii) $\frac{1}{1} - \frac{1}{9} = \frac{8}{9}$ (iii) $\frac{7}{9} - \frac{4}{9} = \frac{1}{3}$ (iv) $\frac{7}{9} - \frac{1}{9} = \frac{2}{3}$ (v) $\frac{2}{3} + \frac{1}{9} = \frac{7}{9}$

4. Find the difference between the values of numbers at point A and B

| 0/1 | 1/12 | 1/6 | 1/4 | 1/3 | 5/12 | 1/2 | 7/12 | 2/3 | 3/4 | 5/6 | 11/12 | 1/1 |

(i) $\frac{1}{6}$ (ii) $(\frac{-1}{4})$ (iii) $(\frac{-1}{6})$ (iv) $(\frac{-1}{2})$ (v) $(\frac{-1}{8})$
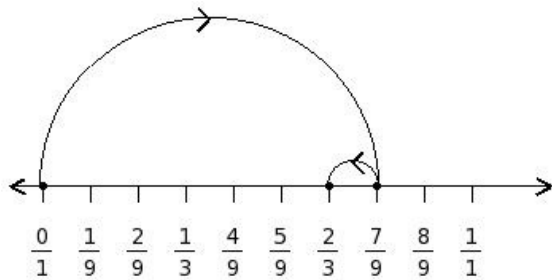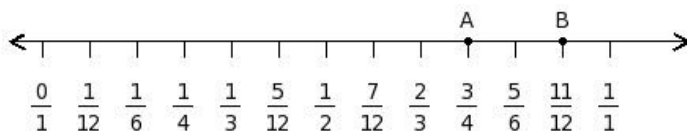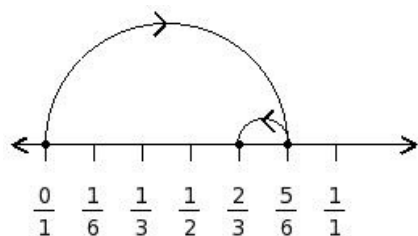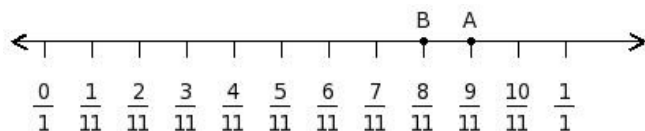
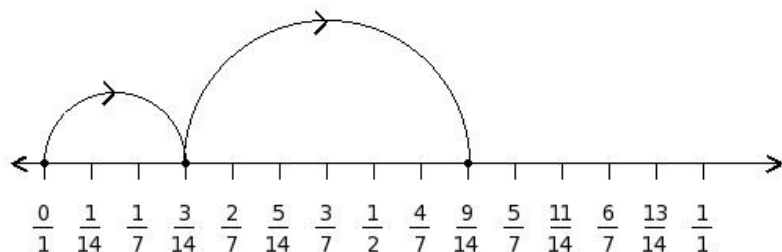5. Find the equation representing the following number line diagram

$$\frac{0}{1} \quad \frac{1}{6} \quad \frac{1}{3} \quad \frac{1}{2} \quad \frac{2}{3} \quad \frac{5}{6} \quad \frac{1}{1}$$

(i) $\dfrac{5}{6} - \dfrac{1}{6} = \dfrac{2}{3}$ (ii) $\dfrac{1}{1} + \dfrac{1}{2} = 1\dfrac{1}{2}$ (iii) $\dfrac{5}{6} - \dfrac{2}{3} = \dfrac{1}{6}$ (iv) $\dfrac{7}{6} - \dfrac{1}{6} = 1$ (v) $\dfrac{2}{3} + \dfrac{1}{6} = \dfrac{5}{6}$

6. Find the difference between the values of numbers at point A and B

$$\frac{0}{1} \quad \frac{1}{11} \quad \frac{2}{11} \quad \frac{3}{11} \quad \frac{4}{11} \quad \frac{5}{11} \quad \frac{6}{11} \quad \frac{7}{11} \quad \frac{8}{11} \quad \frac{9}{11} \quad \frac{10}{11} \quad \frac{1}{1}$$

(i) $\dfrac{1}{9}$ (ii) $\dfrac{3}{11}$ (iii) $\dfrac{1}{13}$ (iv) $\dfrac{1}{11}$ (v) $\left(\dfrac{-1}{11}\right)$

7. Find the equation representing the following number line diagram

$$\frac{0}{1} \quad \frac{1}{14} \quad \frac{1}{7} \quad \frac{3}{14} \quad \frac{2}{7} \quad \frac{5}{14} \quad \frac{3}{7} \quad \frac{1}{2} \quad \frac{4}{7} \quad \frac{9}{14} \quad \frac{5}{7} \quad \frac{11}{14} \quad \frac{6}{7} \quad \frac{13}{14} \quad \frac{1}{1}$$

(i) $\dfrac{5}{14} - \dfrac{3}{7} = \left(\dfrac{-1}{14}\right)$ (ii) $\dfrac{1}{7} + \dfrac{3}{7} = \dfrac{4}{7}$ (iii) $\dfrac{2}{7} + \dfrac{4}{7} = \dfrac{6}{7}$ (iv) $\dfrac{3}{14} - \dfrac{9}{14} = \left(\dfrac{-3}{7}\right)$ (v) $\dfrac{3}{14} + \dfrac{3}{7} = \dfrac{9}{14}$

8. Find the difference between the values of numbers at point A and B

$$\frac{0}{1} \quad \frac{1}{5} \quad \frac{2}{5} \quad \frac{3}{5} \quad \frac{4}{5} \quad \frac{1}{1}$$
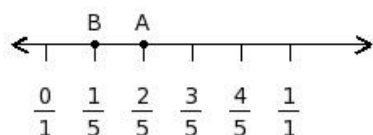
(i) $\dfrac{1}{3}$ (ii) $\dfrac{1}{5}$ (iii) $\left(\dfrac{-1}{5}\right)$ (iv) $\dfrac{1}{7}$ (v) $\dfrac{3}{5}$

Assignment Key

1) (ii)	2) (i)	3) (iv)	4) (iii)	5) (i)	6) (iv)
7) (v)	8) (ii)				