HW

(f) $2\frac{3}{5}, 3\frac{3}{10}, 3\frac{1}{2}, \frac{2}{5}, \frac{9}{10}, 1\frac{1}{2}$

$= \frac{13}{5} + \frac{33}{10} + \frac{7}{2} + \frac{2}{5} + \frac{9}{10} + \frac{3}{2}$

$= \frac{26 + 33 + 35 + 4 + 9 + 15}{10}$

$= \frac{122}{10} = \frac{122}{10} \times \frac{1}{6} = \frac{122}{60} = \frac{61}{30}$

$\frac{\frac{122}{10}}{\frac{6}{1}}$

$= 2\frac{1}{30}$

Average $= \frac{\text{Sum of given Quantities}}{6}$

$= \frac{\frac{122}{10}}{6} = \frac{122}{10} \times \frac{1}{6} = \frac{122}{60} \to \frac{122 \div 2}{60 \div 2} = \frac{61}{30} = 2\frac{1}{30}$

(a) $\frac{7}{12}, 2\frac{5}{6}, 5\frac{3}{4}, \frac{1}{2}, \frac{5}{12}, \frac{1}{6}$

$= \frac{7}{12}, \frac{17}{6}, \frac{23}{4}, \frac{1}{2}, \frac{5}{12}, \frac{1}{6}$

$= \frac{7+34+69+6+5+2}{12}$

$= \frac{123}{12}$

→ Average = $\frac{\text{Sum of given Quantities}}{\text{No of Quantities}}$

$= \frac{123 \div 6}{12 \div 1} = \frac{123}{12} \times \frac{1}{6} = \frac{123}{72}$

$= 1\frac{51}{72}$

(b) $\frac{1}{4}, \frac{3}{4}, \frac{1}{2}, 1\frac{1}{6}, 3 = \frac{6+18+12+4+9}{24}$

$= \frac{49}{24}$

Average = $\frac{\text{Sum of given Quantities}}{\text{Number of Quantities}}$

$= \frac{49}{24} \div 5 = \frac{49}{24} \times \frac{1}{5} = \frac{49}{120}$

3) All even numbers into 7 and 23 = 8, 9, 10, 12, 14, 15, 16, 18, 20, 21, 22

= Avrage = $\frac{\text{Sum of given quantites}}{\text{Numbers of Quantities}}$

$= \frac{8+9+10+12+14+15+16+18+20+21+22}{11}$

$= \frac{165}{11} = 15$

4. All odd numbers between 10 and 30

= 11, 13, 17, 19, 23, 26, 27, 29,

= Average = $\frac{\text{Sum of given quantites}}{\text{Number of quantites}}$

= $\frac{11+13+17+19+23+29}{6} = \frac{112}{6}$

= $\frac{112 \div 2}{6 \div 2} = \frac{56}{3}$