Homework

Exercise 11 (A)

1 Find the average of

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

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

$= \frac{26 + 33 + 35 + 4 + 9}{10} = \frac{122}{10}$

$= \frac{122}{10} \div 6 = \frac{122}{10} \times \frac{1}{6} = \frac{\cancel{122}^{61}}{\cancel{60}_{30}} = \frac{61}{30}$

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

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

Ans: $\frac{7}{12} + \frac{17}{6} + \frac{23}{4} + \frac{1}{2} + \frac{5}{12} + \frac{1}{6}$

$= \frac{24 + 136 + 276 + 24 + 20 + 8}{48}$

$= \frac{492}{48} = \frac{\cancel{492}^{41}}{\cancel{48}_{4}} \div 6 = \frac{\cancel{492}^{41}}{\cancel{48}_{4}} \times \frac{1}{\cancel{6}} = \frac{41}{24}$

$= 1\frac{17}{24}$

(b) $\frac{1}{4}, \frac{3}{4}, \frac{1}{2}, \frac{1}{6}, \frac{3}{8}$

Ans) $\frac{6+18+12+4+9}{24} = \frac{49}{24}$

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

Home work

③ $8 + 10 + 12 + 14 + 16 + 18 + 20 + 22$.

Ans $= 120$

$= \frac{120}{8} \div 8 = 15$.

④ $11 + 13 + 15 + 17 + 19 + 21 + 23 +$

Ans $25 + 27 + 29) / 10$

$= \frac{300}{10} = 20$.