

Average
Exercise - 11(A)

1. Find the average

a. 50, 41, 47, 48, 40, 44

$$\text{Average} = \frac{\text{Sum of the quantities}}{\text{Number of quantities}}$$

$$= \frac{50 + 41 + 47 + 48 + 40 + 44}{6}$$

$$= \frac{270}{6} = 45$$

b. 10, 20, 30, 40, 50, 60, 70, 80, 90, 100

$$= 10 + 20 + 30 + 40 + 50 + 60 + 70 + 80 + 90$$

$$\frac{+ 100}{10}$$

$$= \frac{550}{10} = 55$$

c. 35, 42, 31, 53, 16, 34, 27

$$= \frac{35 + 42 + 31 + 53 + 16 + 34 + 27}{7}$$

$$= \frac{238}{7} = 34$$

d. 24, 21, 26, 25, 18, 20, 27, 23

$$= \frac{24 + 21 + 26 + 25 + 18 + 20 + 27 + 23}{8}$$

$$= \frac{184}{8} = 23$$

e. $\frac{3}{8}, 1\frac{1}{4}, 2\frac{5}{6}, 4\frac{1}{2}, 6\frac{4}{3}$

$$= \frac{3}{8} + \frac{5}{4} + \frac{17}{6} + \frac{9}{2} + \frac{22}{3}$$

LCM = of 8, 4, 6, 2, 3 = 24

$$= \frac{9 + 30 + 68 + 108 + 176}{24} = \frac{391}{24}$$

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$$\text{Average} = \frac{391}{24} \div 5 = \frac{391}{24} \times \frac{1}{5} =$$

$$\frac{391}{120}$$

HW 1. f, g, h

2° Solution

The rainfall of 1st year = 28.5 cm

The rainfall for 2nd year = 30.25 cm

The rainfall for 3rd year = 32.4 cm

The rainfall for 4th year = 31.6 cm

The rainfall for 5th year = 24 cm

The rainfall for 6th year = 30.25 cm

$$\begin{aligned}
 & 2\frac{3}{5} + 3\frac{2}{10} + 3\frac{1}{2} + \frac{2}{5} + \frac{9}{10} + 1\frac{1}{2} \\
 &= \frac{13}{5} + \frac{33}{10} + \frac{7}{2} + \frac{2}{5} + \frac{9}{10} + \frac{3}{2} \\
 &= \frac{26 + 33 + 35 + 4 + 9 + 15}{10} = \frac{122}{10} = 12.2
 \end{aligned}$$

The Number

Average = $12.2 \div 6 = 2.03$

$$\frac{7}{12} + 2\frac{5}{6} + 5\frac{3}{4} + \frac{1}{2} + \frac{5}{12} + \frac{1}{6}$$

The

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

$$= \frac{7 + 34 + 69 + 6 + 5 + 14}{12}$$

$$= \frac{135}{12}$$

Average = $\frac{135}{12} \div \frac{10}{6} = \frac{135}{72}$