

STD-IV

Exercise - 6.7

A Find the sum

$$1. \frac{1}{10} + \frac{5}{10} = \frac{1+5}{10} = \frac{6}{10} = \frac{6 \div 2}{10 \div 2} = \frac{3}{5}$$

Ans. The required sum is $\frac{3}{5}$.

$$2. \frac{2}{7} + \frac{3}{7} = \frac{2+3}{7} = \frac{5}{7}$$

Ans. The required sum is $\frac{5}{7}$.

$$3. \frac{3}{6} + \frac{1}{6} = \frac{3+1}{6} = \frac{4}{6} = \frac{4 \div 2}{6 \div 2} = \frac{2}{3}$$

Ans. The required sum is $\frac{2}{3}$.

$$4. \frac{1}{4} + \frac{1}{4} = \frac{1+1}{4} = \frac{2}{4} = \frac{2 \div 2}{4 \div 2} = \frac{1}{2}$$

Ans. The required sum is $\frac{1}{2}$.

$$5. 2 + 1 + \frac{1}{2}$$

$$= 3 + \frac{1}{2}$$

$$= 3\frac{1}{2}$$

Ans. The required sum is $3\frac{1}{2}$.

$$6) 1\frac{1}{8} + 1\frac{3}{8}$$

$$= 1 + 1 + \frac{1}{8} + \frac{3}{8}$$

$$= 2 + \frac{1+3}{8}$$

$$= 2 + \frac{4}{8}$$

$$= 2 + \frac{4 \div 4}{8 \div 4}$$

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

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

Ans. The required sum is $2\frac{1}{2}$.

$$7. 1\frac{1}{2} + \frac{1}{2}$$

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

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

$$= 1 + \frac{2 \div 2}{2 \div 2}$$

$$= 1 + 1 = 1 + 1 = 2$$

Ans. The required sum is 2.

$$8. \frac{3}{5} + 1\frac{1}{5}$$

$$= 1 + \frac{3}{5} + \frac{1}{5}$$

$$= 1 + \frac{3+1}{5}$$

$$= 1 + \frac{4}{5}$$

$$= 1\frac{4}{5}$$

Ans. The required sum is $1\frac{4}{5}$.

13. Find the difference

$$1. \frac{3}{5} - \frac{3}{5} = \frac{3-3}{5} = \frac{0}{5} = 0$$

Ans. The required difference is zero.

$$2. \frac{4}{9} - \frac{1}{9} = \frac{4-1}{9} = \frac{3}{9} = \frac{3 \div 3}{9 \div 3} = \frac{1}{3}$$

Ans. The required difference is $\frac{1}{3}$.

$$3. \frac{5}{8} - \frac{0}{8} = \frac{5-0}{8} = \frac{5}{8}$$

Ans. The required difference is $\frac{5}{8}$.

$$4. \frac{3}{6} - \frac{1}{6} = \frac{3-1}{6} = \frac{2}{6} = \frac{2 \div 2}{6 \div 2} = \frac{1}{3}$$

Ans. The required difference is $\frac{1}{3}$.

$$5) 2\frac{2}{6} - 1\frac{5}{6}$$

$$= \frac{2 \times 6 + 2}{6} - \frac{1 \times 6 + 5}{6}$$

$$= \frac{12+2}{6} - \frac{6+5}{6}$$

$$= \frac{14}{6} - \frac{11}{6}$$

$$= \frac{14-11}{6} = \frac{3}{6} = \frac{3 \div 3}{6 \div 3} = \frac{1}{2}$$

Ans. The required difference is $\frac{1}{2}$.

$$6. 3\frac{1}{2} - 2\frac{1}{2}$$

$$= \frac{3 \times 2 + 1}{2} - \frac{2 \times 2 + 1}{2}$$

$$= \frac{6+1}{2} - \frac{4+1}{2}$$

$$= \frac{7}{2} - \frac{5}{2}$$

$$= \frac{7-5}{2} = \frac{2}{2} = 1$$

Ans. The required difference is 1.

$$7) 1\frac{4}{9} - \frac{8}{9}$$

$$= \frac{1 \times 9 + 4}{9} - \frac{8}{9}$$

$$= \frac{9+4}{9} - \frac{8}{9}$$

$$= \frac{13}{9} - \frac{8}{9}$$

$$= \frac{13-8}{9}$$

$$= \frac{5}{9}$$

Ans. The required difference is $\frac{5}{9}$.

$$8) 7\frac{3}{4} - 7\frac{1}{4}$$

$$= \frac{7 \times 4 + 3}{4} - \frac{7 \times 4 + 1}{4}$$

$$= \frac{28+3}{4} - \frac{28+1}{4}$$

$$= \frac{31}{4} - \frac{29}{4} = \frac{31-29}{4} = \frac{2}{4} = \frac{2 \div 2}{4 \div 2} = \frac{1}{2}$$

Ans. The required difference is $\frac{1}{2}$.