SESSION	**: 13**
CLASS	**: IV**
SUBJECT	**: MATHEMATICS**
CHAPTER NUMBER	**: 11**
CHAPTER NAME	**: FRACTIONS**
SUBTOPIC	**: ADDITION OF LIKE FRACTIONS, EX-11 C**

LEARNING OBJECTIVE

- **Enable the students to understand how to add the like fractions.**

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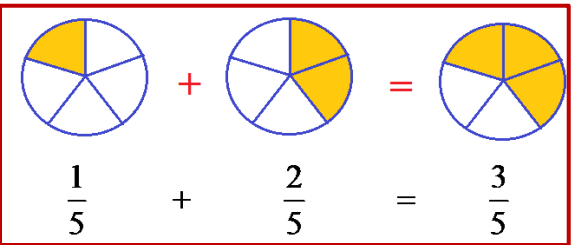
FRACTION

ADDITION OF LIKE FRACTIONS

Here, a strip pf paper is divided into **5 equal parts**

One part on the left and **2 parts** on the **right** of the paper strip are shown **shaded**. Observe that **1 shaded part** on the left represents $\frac{1}{5}$ of the whole and **2 shaded parts** on the right represent $\frac{2}{5}$ of the whole.

We know that 1 shaded part on the left taken together with 2 shaded parts on the right will give 3 shaded parts.



Thus, $\frac{1}{5} + \frac{2}{5} = \frac{1+2}{5}$ or $\frac{3}{5}$.

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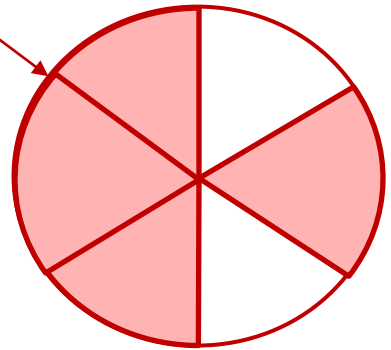
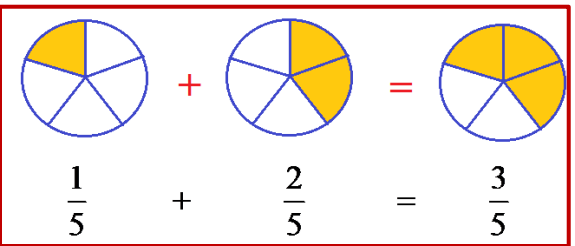
FRACTION

ADDITION OF LIKE FRACTIONS

Similarly, the **shaded** parts of the **circle**, given **alongside**, gives

$$\frac{1}{6} + \frac{3}{6} = \frac{1+3}{6} \text{ or } \frac{4}{6}.$$





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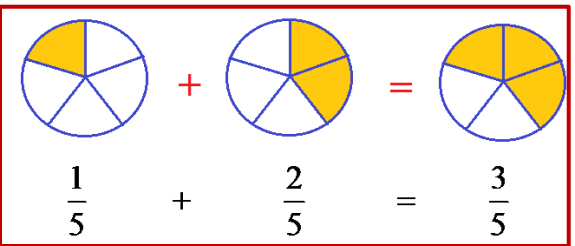
FRACTION

ADDITION OF LIKE FRACTIONS

Like fractions can be added by simply adding the numerator of the given fractions and keeping the denominator same.



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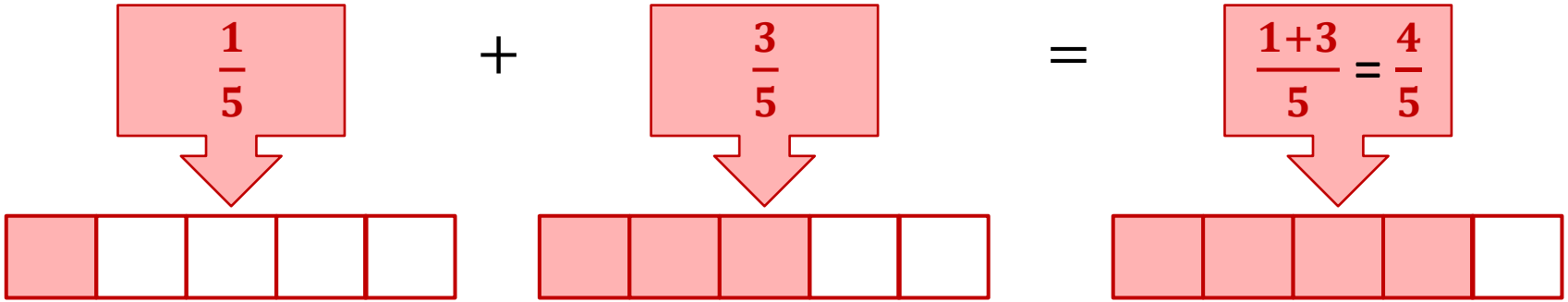
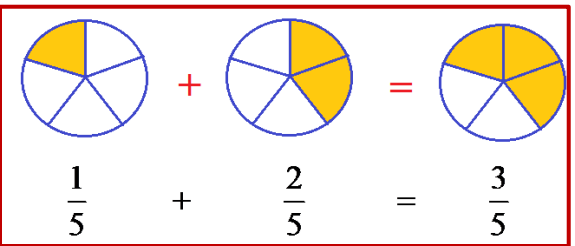
FRACTION

EXAMPLE

Add $\frac{1}{5}$ and $\frac{3}{5}$.

Solution:





ADDITION OF LIKE FRACTIONS

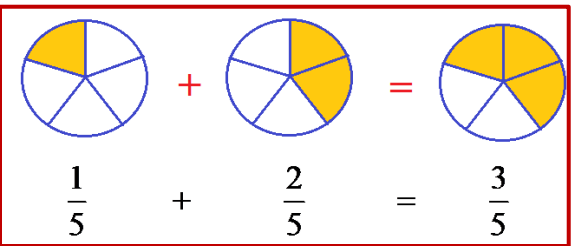
Exercise – 11(C)

1. Fill in the blanks:

(a) $\frac{1}{7} + \frac{5}{7} = \frac{\boxed{6}}{7}$

(b) $\frac{\boxed{2}}{5} + \frac{2}{5} = \frac{4}{5}$

(c) $\frac{\boxed{5}}{8} + \frac{2}{\boxed{8}} = \frac{7}{8}$



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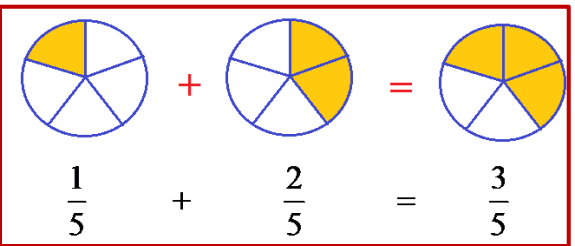
ADDITION OF LIKE FRACTIONS

Exercise – 11(C)

1. Fill in the blanks:

(d) $\frac{10}{16} + \frac{\boxed{2}}{16} = \frac{12}{16}$ (e) $\frac{5}{19} + \frac{\boxed{13}}{19} = \frac{18}{19}$ (f) $\frac{7}{10} + \frac{\boxed{2}}{\boxed{10}} = \frac{9}{10}$



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ADDITION OF LIKE FRACTIONS

Exercise – 11(C)

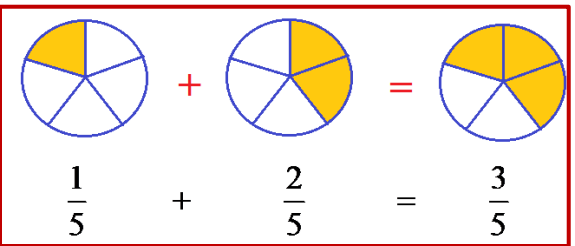
1. Fill in the blanks:

(g) $\frac{13}{29} + \frac{\boxed{3}}{29} = \frac{16}{\boxed{29}}$

(h) $\frac{\boxed{3}}{17} + \frac{2}{17} = \frac{5}{\boxed{17}}$

(i) $\frac{\boxed{3}}{11} + \frac{7}{11} = \frac{10}{11}$

(j) $\frac{\boxed{15}}{25} + \frac{5}{\boxed{25}} = \frac{20}{25}$



ADDITION OF LIKE FRACTIONS

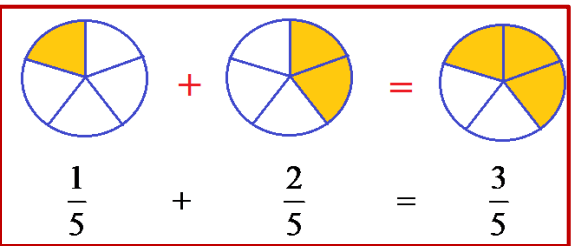
Exercise – 11(C)

2. Add the following:

(a) $\frac{2}{3} + \frac{1}{3} = \frac{2+1}{3} = \frac{3}{3}$

(b) $\frac{2}{7} + \frac{2}{7} = \frac{2+2}{7} = \frac{4}{7}$

(c) $\frac{3}{8} + \frac{5}{8} = \frac{3+5}{8} = \frac{8}{8}$



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ADDITION OF LIKE FRACTIONS

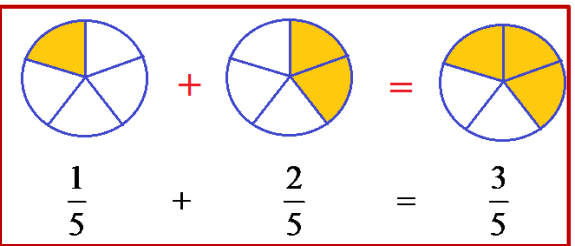
Exercise – 11(C)

2. Add the following:

(d) $\frac{9}{11}+\frac{1}{11}=\frac{9+1}{11}=\frac{10}{11}$

(e) $\frac{6}{13}+\frac{2}{13}=\frac{6+2}{13}=\frac{8}{13}$

(f) $\frac{8}{12}+\frac{2}{12}+\frac{1}{12}=\frac{8+2+1}{12}=\frac{11}{12}$



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ADDITION OF LIKE FRACTIONS

Exercise – 11(C)

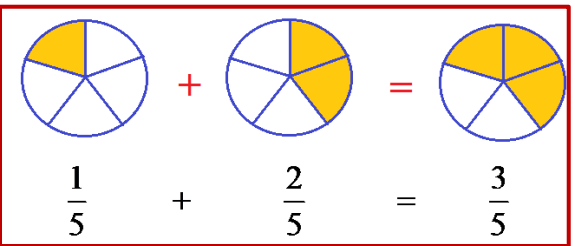
2. Add the following:

(g) $\frac{5}{19}+\frac{3}{19}+\frac{7}{19}=\frac{5+3+7}{19}=\frac{15}{19}$

(h) $\frac{6}{23}+\frac{11}{23}+\frac{3}{23}=\frac{6+11+3}{23}=\frac{20}{23}$

(i) $\frac{7}{19}+\frac{4}{19}+\frac{3}{19}=\frac{7+4+3}{19}=\frac{14}{19}$

(j) $\frac{4}{15}+\frac{5}{15}+\frac{3}{15}=\frac{4+5+3}{15}=\frac{12}{15}$



HOME ASSIGNMENT:

- **Complete Exercise – 11(C) in your note book.**

LEARNING OUTCOME:

Students are able to understand how to add the like fractions.

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THANKING YOU

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