SESSION	**: 12**
CLASS	**: IV**
SUBJECT	**: MATHEMATICS**
CHAPTER NUMBER	**: 11**
CHAPTER NAME	**: FRACTIONS**
SUBTOPIC	**: EQUIVALENT FRACTIONS AND FINDING EQUIVALENT FRACTIONS, EX-11 B Q.NO. 4, 5 AND 6**

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LEARNING OBJECTIVE

- **Enable the students to understand the meaning of equivalent fractions and how to find the equivalent fractions using multiplication and division.**

EQUIVALENT FRACTIONS

Exercise – 11(B)

4. Write the next two equivalent fractions to each of the following fractions:

(a) $\frac{2}{3}$, $\frac{4}{6}$, $\frac{6}{9}$, $\frac{2\times2}{3\times2}=\frac{4}{6}$ $\frac{2\times3}{3\times3}=\frac{6}{9}$

(b) $\frac{5}{7}$, $\frac{10}{14}$, $\frac{15}{21}$, $\frac{5\times2}{7\times2}=\frac{10}{14}$ $\frac{5X3}{7\times3}=\frac{15}{21}$

(c) $\frac{6}{11}$, $\frac{24}{44}$, $\frac{36}{66}$, $\frac{6\times4}{11\times4}=\frac{24}{44}$ $\frac{6\times6}{11\times6}=\frac{36}{66}$

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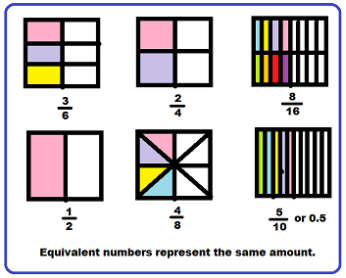
EQUIVALENT FRACTIONS

Exercise – 11(B)

4. Write the next two equivalent fractions to each of the following fractions:

(d) $\frac{5}{9}$, $\frac{10}{18}$, $\frac{25}{45}$, $\frac{5\times2}{9\times2}=\frac{10}{18}$ $\frac{5\times5}{9\times5}=\frac{25}{45}$

(e) $\frac{3}{10}$, $\frac{9}{30}$, $\frac{21}{70}$, $\frac{3\times3}{10\times3}=\frac{9}{30}$ $\frac{3\times7}{10\times7}=\frac{21}{70}$



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EQUIVALENT FRACTIONS

Exercise – 11(B)

5. Fill in the blanks:

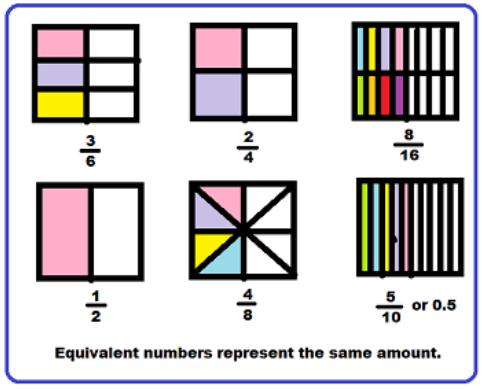
(a) $\frac{5}{8} = \frac{25}{\boxed{40}}$

(b) $\frac{3}{4} = \frac{15}{\boxed{20}}$

(c) $\frac{\boxed{7}}{9} = \frac{63}{81}$

(d) $\frac{4}{\boxed{5}} = \frac{20}{25}$

(e) $\frac{15}{25} = \frac{3}{\boxed{5}}$



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EQUIVALENT FRACTIONS

Exercise – 11(B)

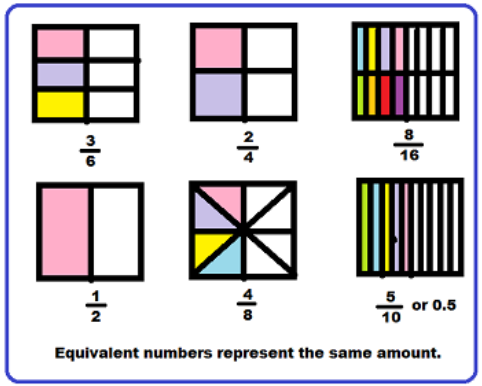
6. Check whether the given fractions are equivalent or not:

(a) $\frac{3}{4}$ and $\frac{9}{12}$

$3 \times 12 = 36$

$\frac{3}{4} \times \frac{9}{12}$

$4 \times 9 = 36$



So, $\frac{3}{4}$ and $\frac{9}{12}$ is equivalent fractions.

EQUIVALENT FRACTIONS

Exercise – 11(B)

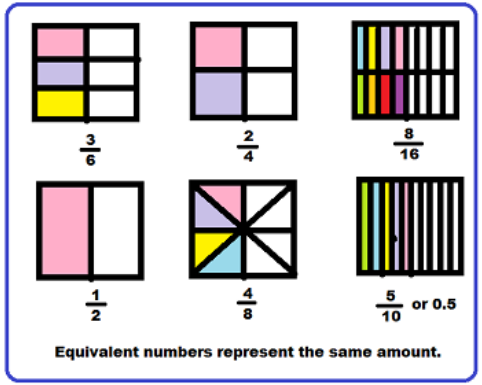
6. Check whether the given fractions are equivalent or not:

(b) $\frac{9}{27}$ and $\frac{3}{9}$

$9 \times 9 = 81$

$\frac{9}{27}$ $\quad$ $\frac{3}{9}$

$27 \times 3 = 81$



So, $\frac{9}{27}$ and $\frac{3}{9}$ is equivalent fractions.

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EQUIVALENT FRACTIONS

Exercise – 11(B)

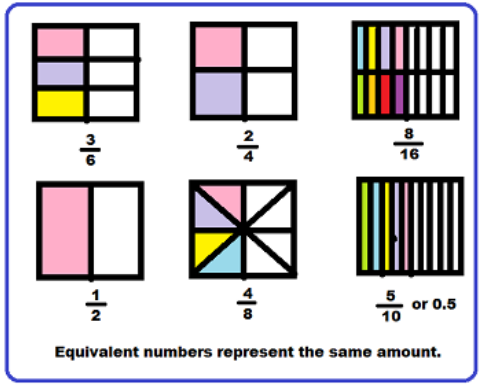
6. Check whether the given fractions are equivalent or not:

(c) $\frac{2}{5}$ and $\frac{7}{6}$

$2 \times 6 = 12$

$\frac{2}{5} \quad \frac{7}{6}$

$5 \times 7 = 35$



So, $\frac{2}{5}$ and $\frac{7}{6}$ is not equivalent fractions.

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EQUIVALENT FRACTIONS

Exercise – 11(B)

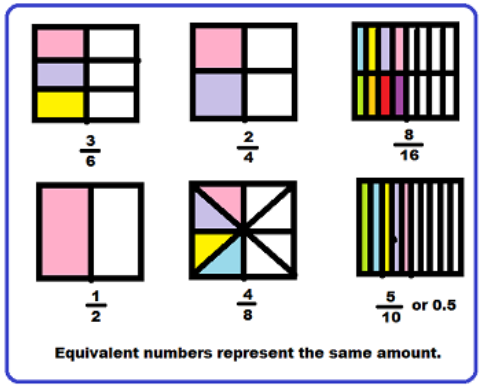
6. Check whether the given fractions are equivalent or not:

(d) $\frac{5}{9}$ and $\frac{9}{12}$

$5 \times 12 = 60$

$\frac{5}{9} \quad \frac{9}{12}$

$9 \times 9 = 81$



So, $\frac{5}{9}$ and $\frac{9}{12}$ is not equivalent fractions.

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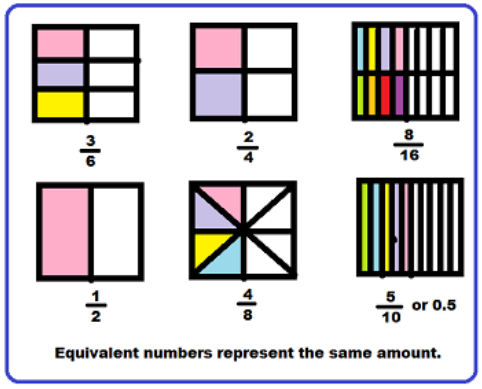
EQUIVALENT FRACTIONS

Exercise – 11(B)

6. Check whether the given fractions are equivalent or not:

(e) $\frac{9}{15}$ and $\frac{3}{5}$

$9 \times 5 = 45$ $\qquad$ $\frac{9}{15} \times \frac{3}{5}$ $\qquad$ $15 \times 3 = 45$



So, $\frac{9}{15}$ and $\frac{3}{5}$ is equivalent fractions.

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EQUIVALENT FRACTIONS

Exercise – 11(B)

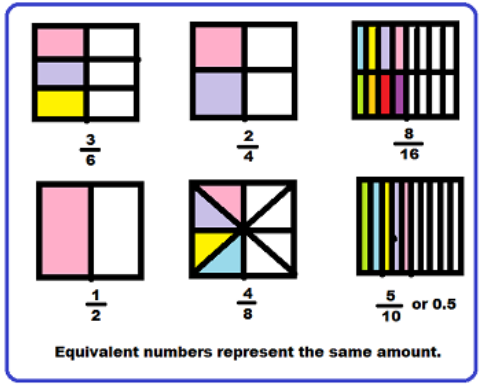
6. Check whether the given fractions are equivalent or not:

(f) $\frac{2}{4}$ and $\frac{9}{12}$

$2 \times 12 = 24$

$\frac{2}{4} \times \frac{9}{12}$

$4 \times 9 = 36$



So, $\frac{2}{4}$ and $\frac{9}{12}$ is not equivalent fractions.

EQUIVALENT FRACTIONS

Exercise – 11(B)

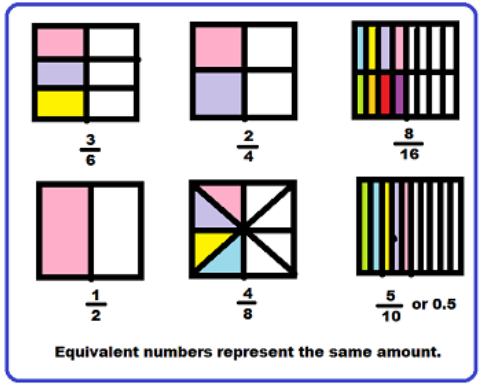
6. Check whether the given fractions are equivalent or not:

(g) $\frac{11}{12}$ and $\frac{7}{9}$

$11 \times 9 = 99$

$\frac{11}{12} \times \frac{7}{9}$

$12 \times 7 = 84$



So, $\frac{11}{12}$ and $\frac{7}{9}$ is not equivalent fractions.

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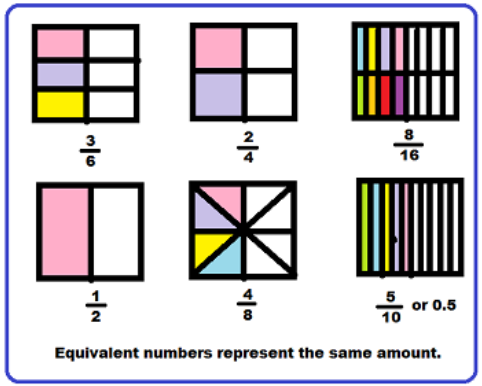
EQUIVALENT FRACTIONS

Exercise – 11(B)

6. Check whether the given fractions are equivalent or not:

(h) $\frac{12}{24}$ and $\frac{5}{8}$

$12 \times 8 = 96$ $\qquad$ $\frac{12}{24} \times \frac{5}{8}$ $\qquad$ $24 \times 5 = 120$



So, $\frac{12}{24}$ and $\frac{5}{8}$ is not equivalent fractions.

EQUIVALENT FRACTIONS

Exercise – 11(B)

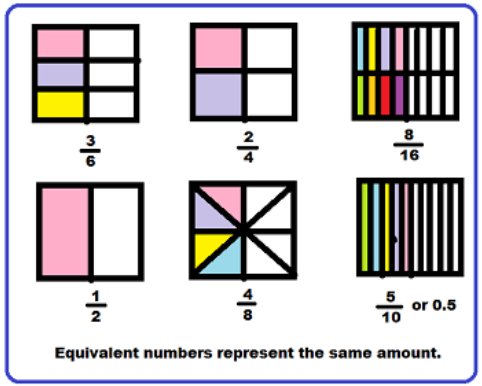
6. Check whether the given fractions are equivalent or not:

(i) $\frac{2}{3}$ and $\frac{12}{18}$

$2 \times 18 = 36$

$\frac{2}{3} \times \frac{12}{18}$

$3 \times 12 = 36$



So, $\frac{2}{3}$ and $\frac{12}{18}$ is equivalent fractions.

LEARNING OUTCOME:

Students are able to understand the meaning of equivalent fractions and how to find the equivalent fractions using multiplication and division.

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THANKING YOU

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