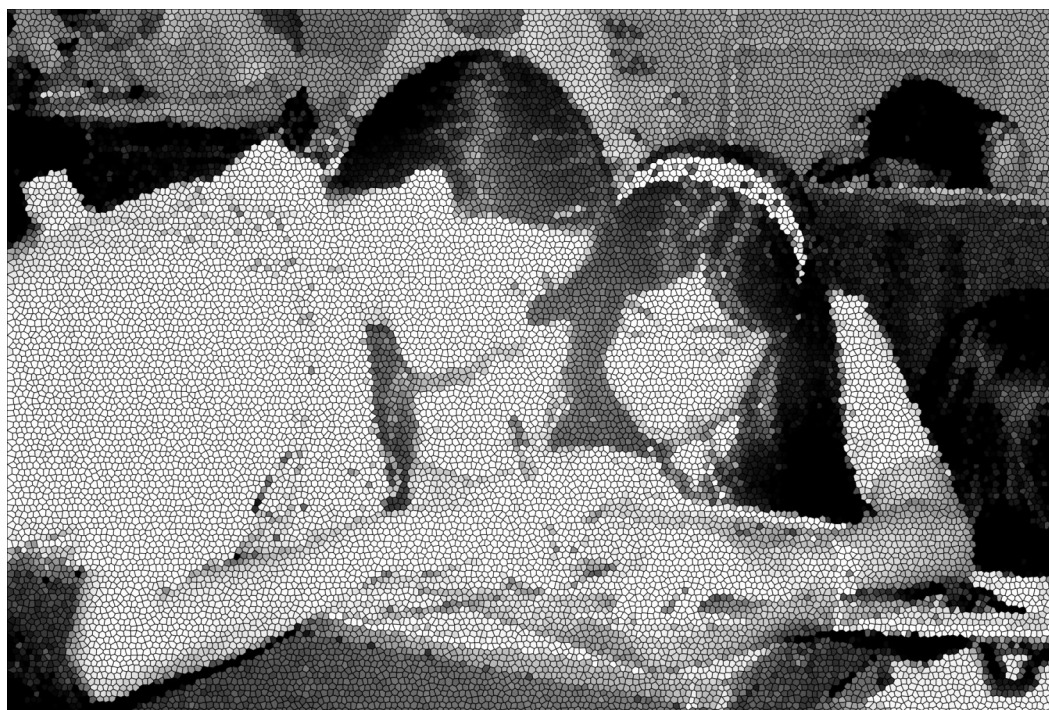


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Modified In-School Off-School Approach Modules (MISOSA)
Distance Education for Elementary Schools
SELF-INSTRUCTIONAL MATERIALS



**ADDITION OF TWO
TO FOUR SIMILAR
FRACTIONS**



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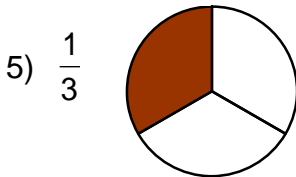
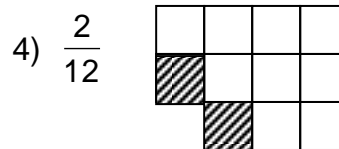
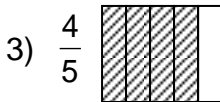
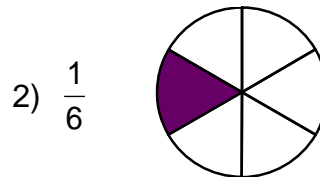


ADDITION OF TWO TO FOUR SIMILAR FRACTIONS

Objective: Add two to four similar fractions



Give an estimate for the given fractions using the models. Write about 0, about $\frac{1}{2}$, or about 1.





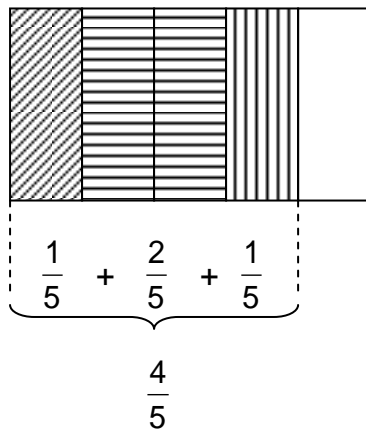
Study and Learn

Nora painted $\frac{1}{5}$ of a large rectangle blue, $\frac{2}{5}$ yellow and $\frac{1}{5}$ green. What part of the rectangle did she end up painting?

What are the fractions mentioned in the problem? ($\frac{1}{5}$, $\frac{2}{5}$ and $\frac{1}{5}$)

Are these fractions similar or dissimilar? (*They are similar fractions.*)

Let's picture the problem.



Nora painted $\frac{4}{5}$ of the large rectangle.

Here's another way of solving the problem.

Let's add $\frac{1}{5}$, $\frac{2}{5}$ and $\frac{1}{5}$.

Here's how:

- **Add the numerators.**

$$\frac{1}{5} + \frac{2}{5} + \frac{1}{5} = 1 + 2 + 1 = 4$$

- **Use the same denominator. Reduce the answer to its lowest terms if needed.**

$$\frac{1}{5} + \frac{2}{5} + \frac{1}{5} = \frac{1+2+1}{5} = \frac{4}{5}$$





Did you find it easy? Well, here are other examples for you to study.

a. $\frac{4}{9} + \frac{2}{9} + \frac{1}{9} = \frac{4+2+1}{9} = \frac{7}{9}$

b. $\frac{2}{11} + \frac{5}{11} + \frac{3}{11} = \frac{2+5+3}{11} = \frac{10}{11}$

c. $\frac{1}{18} + \frac{5}{18} + \frac{2}{18} + \frac{4}{18} = \frac{1+5+2+4}{18} = \frac{12}{18}$ or $\frac{2}{3}$

Remember, express your answer in the lowest terms if possible.



A. Add. Choose the letter of the correct answer.

1) $\frac{1}{12} + \frac{3}{12} + \frac{2}{12} + \frac{1}{12}$

a) $\frac{6}{12}$

b) $\frac{7}{12}$

c) $\frac{8}{12}$

2) $\frac{2}{6} + \frac{3}{6}$

a) $\frac{5}{6}$

b) $\frac{4}{6}$

c) $\frac{3}{6}$

3) $\frac{2}{9} + \frac{4}{9} + \frac{1}{9}$

a) $\frac{5}{9}$

b) $\frac{6}{9}$

c) $\frac{7}{9}$

4) $\frac{2}{17} + \frac{5}{17} + \frac{8}{17}$

a) $\frac{14}{17}$

b) $\frac{15}{17}$

c) $\frac{16}{17}$

5) $\frac{2}{21} + \frac{7}{21} + \frac{2}{21} + \frac{1}{21}$

a) $\frac{4}{7}$

b) $\frac{13}{21}$

c) $\frac{14}{21}$

B. Read and solve.

1. What is the sum of $\frac{1}{6}$, $\frac{2}{6}$ and $\frac{2}{6}$?

2. What is $\frac{1}{4}$ more than $\frac{2}{4}$?

3. $\frac{1}{16}$ when added to $\frac{6}{16}$ is _____.





Wrap Up

In adding similar fractions, just add the numerators and use the same denominator.



On Your Own

A. Find the sum.

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

2) $\frac{15}{100} + \frac{6}{100} + \frac{10}{100}$

3) $\frac{1}{15} + \frac{2}{15} + \frac{3}{15}$

4) $\frac{2}{20} + \frac{2}{20} + \frac{1}{20} + \frac{8}{20}$

5) $\frac{2}{19} + \frac{7}{19} + \frac{9}{19}$

B. Read and solve.

1) $\frac{1}{8}$ more than $\frac{4}{8}$ is _____.

2) What is the total of $\frac{1}{9}, \frac{2}{9}$ and $\frac{4}{9}$?

3) $\frac{4}{17}$ plus $\frac{2}{17}$ equals _____.

4) $\frac{2}{7}$ when added to $\frac{3}{7}$ and $\frac{1}{7}$ is _____.

5) What is the sum of $\frac{1}{11}, \frac{3}{11}$ and $\frac{5}{11}$?





Key to Correction
ADDITION OF TWO TO FOUR SIMILAR FRACTIONS

REVIEW

- 1) $\frac{1}{2}$
- 2) 0
- 3) 1
- 4) 0
- 5) $\frac{1}{2}$

TRY THESE

A.

- 1) b
- 2) a
- 3) c
- 4) b
- 5) a

B.

- 1) $\frac{5}{6}$
- 2) $\frac{3}{4}$
- 3) $\frac{7}{16}$

ON YOUR OWN

A.

- 1) $\frac{3}{5}$
- 2) $\frac{31}{100}$
- 3) $\frac{6}{15} = \frac{2}{5}$
- 4) $\frac{13}{20}$
- 5) $\frac{18}{19}$

B.

- 1) $\frac{5}{8}$
- 2) $\frac{7}{9}$
- 3) $\frac{6}{17}$
- 4) $\frac{6}{7}$
- 5) $\frac{8}{11}$