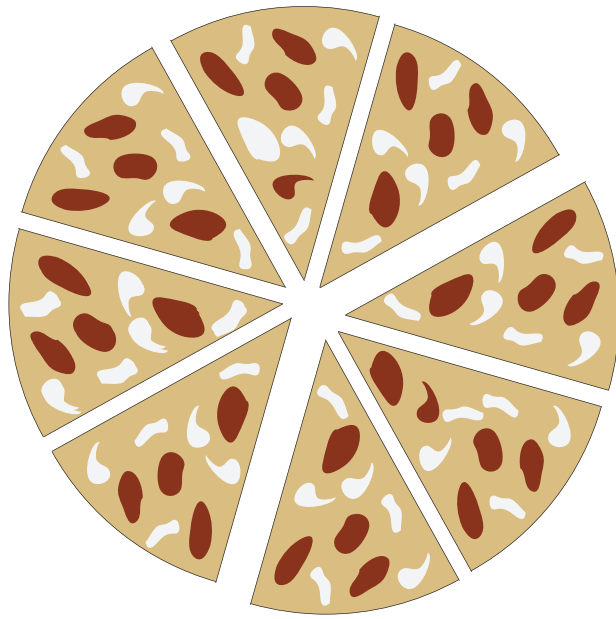


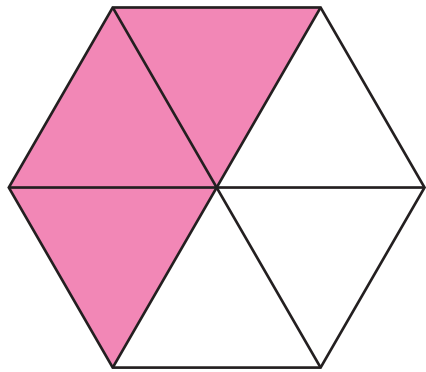
Fractions

4th Grade

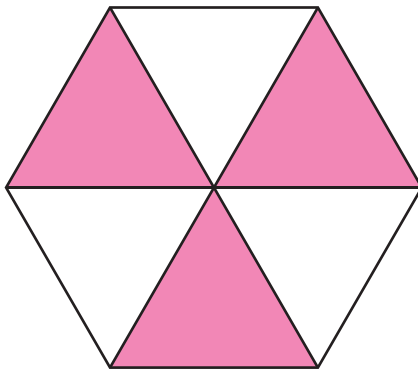
$$\frac{5}{8}$$



$$\frac{3}{8}$$



=



Workbook 1

Missing Numbers

Fill in the missing numbers.

1) $\frac{3}{4} = \frac{\square}{8}$

2) $\frac{5}{\square} = \frac{20}{12}$

3) $\frac{11}{2} = \frac{33}{\square}$

4) $\frac{35}{25} = \frac{\square}{5}$

5) $\frac{\square}{14} = \frac{16}{28}$

6) $\frac{6}{\square} = \frac{24}{36}$

7) $\frac{\square}{15} = \frac{8}{3}$

8) $\frac{10}{3} = \frac{\square}{9}$

9) $\frac{12}{16} = \frac{\square}{8}$

10) $\frac{4}{7} = \frac{16}{\square}$

11) $\frac{1}{\square} = \frac{5}{50}$

12) $\frac{\square}{27} = \frac{7}{9}$

13) $\frac{39}{12} = \frac{13}{\square}$

14) $\frac{9}{2} = \frac{\square}{10}$

15) $\frac{\square}{6} = \frac{12}{24}$

16) $\frac{4}{\square} = \frac{8}{18}$

Equivalent Fractions - Pattern

Read the pattern and find the missing equivalent fraction in each problem.

$$1) \quad \frac{5}{7} = \frac{10}{14} = \frac{15}{21} = \frac{20}{28} = \text{---}$$

$$2) \quad \frac{1}{3} = \text{---} = \frac{5}{15} = \frac{7}{21} = \frac{9}{27}$$

$$3) \quad \frac{9}{2} = \frac{18}{4} = \frac{27}{6} = \frac{36}{8} = \text{---}$$

$$4) \quad \frac{8}{5} = \frac{16}{10} = \frac{24}{15} = \text{---} = \frac{40}{25}$$

$$5) \quad \frac{1}{6} = \text{---} = \frac{3}{18} = \frac{4}{24} = \frac{5}{30}$$

$$6) \quad \frac{2}{3} = \frac{6}{9} = \frac{10}{15} = \text{---} = \frac{18}{27}$$

$$7) \quad \frac{7}{4} = \frac{14}{8} = \frac{21}{12} = \frac{28}{16} = \text{---}$$

$$8) \quad \frac{3}{8} = \frac{6}{16} = \frac{9}{24} = \text{---} = \frac{15}{40}$$

Missing Numbers

Fill in the missing numbers.

$$1) \quad \frac{3}{4} = \frac{6}{\quad} = \frac{\quad}{12} = \frac{12}{\quad} = \frac{\quad}{20} = \frac{\quad}{24} = \frac{21}{\quad} = \frac{24}{\quad}$$

$$2) \quad \frac{15}{75} = \frac{\quad}{65} = \frac{\quad}{55} = \frac{9}{\quad} = \frac{7}{\quad} = \frac{\quad}{25} = \frac{\quad}{15} = \frac{1}{\quad}$$

$$3) \quad \frac{56}{48} = \frac{\quad}{42} = \frac{42}{\quad} = \frac{\quad}{30} = \frac{28}{\quad} = \frac{\quad}{18} = \frac{14}{\quad} = \frac{\quad}{6}$$

$$4) \quad \frac{2}{3} = \frac{6}{\quad} = \frac{\quad}{12} = \frac{\quad}{18} = \frac{14}{\quad} = \frac{18}{\quad} = \frac{\quad}{30} = \frac{24}{\quad}$$

$$5) \quad \frac{1}{8} = \frac{\quad}{16} = \frac{3}{\quad} = \frac{4}{\quad} = \frac{\quad}{40} = \frac{6}{\quad} = \frac{7}{\quad} = \frac{\quad}{64}$$

$$6) \quad \frac{32}{72} = \frac{28}{\quad} = \frac{\quad}{54} = \frac{20}{\quad} = \frac{16}{\quad} = \frac{\quad}{27} = \frac{\quad}{18} = \frac{4}{\quad}$$

$$7) \quad \frac{6}{5} = \frac{12}{\quad} = \frac{24}{\quad} = \frac{\quad}{25} = \frac{42}{\quad} = \frac{\quad}{40} = \frac{60}{\quad} = \frac{\quad}{55}$$

$$8) \quad \frac{8}{24} = \frac{\quad}{21} = \frac{6}{\quad} = \frac{\quad}{15} = \frac{4}{\quad} = \frac{\quad}{9} = \frac{2}{\quad} = \frac{\quad}{3}$$

Compare – Like Fractions

Write $>$, $<$ or $=$ for each pair of fractions:

1

$$\frac{4}{5} \square \frac{3}{5}$$

2

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

3

$$\frac{5}{8} \square \frac{4}{8}$$

4

$$\frac{8}{9} \square \frac{7}{9}$$

5

$$\frac{1}{2} \square \frac{1}{2}$$

6

$$\frac{6}{7} \square \frac{2}{7}$$

7

$$\frac{2}{4} \square \frac{3}{4}$$

8

$$\frac{4}{6} \square \frac{5}{6}$$

9

$$\frac{2}{9} \square \frac{3}{9}$$

10

$$\frac{7}{8} \square \frac{4}{8}$$

11

$$\frac{2}{5} \square \frac{1}{5}$$

12

$$\frac{4}{7} \square \frac{5}{7}$$

13

$$\frac{6}{9} \square \frac{3}{9}$$

14

$$\frac{2}{6} \square \frac{5}{6}$$

15

$$\frac{2}{4} \square \frac{1}{4}$$

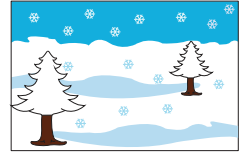
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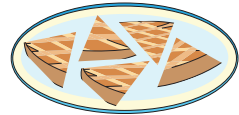
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Adding Like Fractions

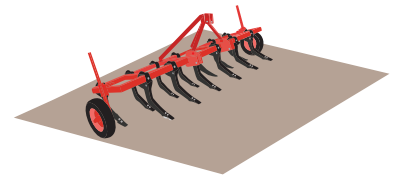
- 1) Detroit receives $\frac{8}{5}$ inches of snowfall on Christmas morning. It receives $\frac{3}{5}$ inches of snowfall by evening. How many inches of snowfall in all did Detroit receive on Christmas Day?



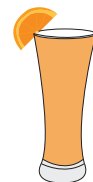
- 2) Mrs. Warner bakes an apple pie. The boys in the house ate $\frac{1}{8}$ of it and the girls indulged in $\frac{3}{8}$ of the apple pie. What fraction of the pie did the boys and girls consume altogether?



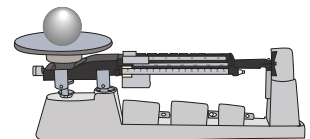
- 3) A farmer and his workmen plow $\frac{5}{2}$ acres of land on Saturday and $\frac{3}{2}$ acres on Sunday. How many acres of land did the farmer and his workmen plow in all?



- 4) Shirley blends $\frac{5}{6}$ th of a cup of orange juice and $\frac{13}{6}$ th cups of carrot juice to prepare a mocktail. How many cups of mocktail did Shirley prepare altogether?

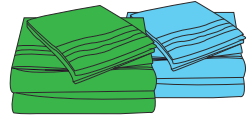


- 5) Mr. Jenkins conducts an experiment in the lab using two spherical metal balls. The steel ball weighs $\frac{11}{9}$ pounds and the iron balls weigh $\frac{16}{9}$ pounds. What is the total weight of the two spherical metal balls?

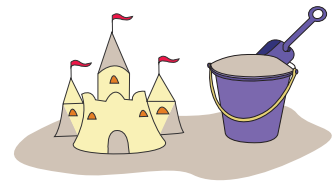


Subtracting Like Fractions

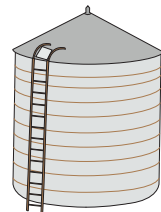
- 1) Jennifer visits the store to buy $\frac{1}{9}$ of a yard of a blue fabric and $\frac{4}{9}$ of a yard of green fabric to make new pillow covers for a doll house. How many more yards of green fabric did Jennifer buy than blue fabric?



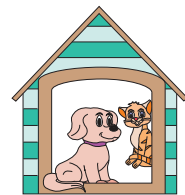
- 2) Keith and Lindsay are building sandcastles on the seashore. Keith collects $7\frac{1}{4}$ cups of sand in his bucket and Lindsay scoops up $3\frac{3}{4}$ cups of sand in her bucket. How many more cups of sand did Keith collect than Lindsay?



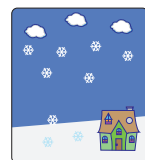
- 3) A water tank is five-sixth full. After a couple of hours, the capacity of the tank is reduced by one-sixth. What fraction of the water tank is now filled with water?



- 4) Nine-fifth of the animals in a rescue home are dogs and $\frac{7}{5}$ th of them are cats. How many more dogs are there than the cats?



- 5) Raleigh, NJ received $9\frac{2}{7}$ inches of snowfall on Christmas Eve. The town received $4\frac{5}{7}$ inches of snow on New Year's Day. How many more inches did it snow on Christmas Eve than New Year's Day?



Fractions into Decimals

Convert each fraction into decimal:

1) $\frac{79}{10} =$ <input type="text"/>	2) $\frac{90}{100} =$ <input type="text"/>	3) $\frac{1735}{1000} =$ <input type="text"/>
4) $\frac{56}{100} =$ <input type="text"/>	5) $\frac{326}{1000} =$ <input type="text"/>	6) $\frac{235}{10} =$ <input type="text"/>
7) $\frac{752}{100} =$ <input type="text"/>	8) $\frac{135}{1000} =$ <input type="text"/>	9) $\frac{9}{100} =$ <input type="text"/>
10) $\frac{780}{1000} =$ <input type="text"/>	11) $\frac{200}{10} =$ <input type="text"/>	12) $\frac{12}{100} =$ <input type="text"/>
13) $\frac{56}{10} =$ <input type="text"/>	14) $\frac{77}{1000} =$ <input type="text"/>	15) $\frac{805}{10} =$ <input type="text"/>
16) $\frac{345}{100} =$ <input type="text"/>	17) $\frac{6394}{1000} =$ <input type="text"/>	18) $\frac{113}{100} =$ <input type="text"/>