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Fractions and Mixed Numbers

Practice 1 Adding Unlike Fractions

Find two equivalent fractions for each fraction.

Example

$\frac{2}{3} = \frac{4}{6} = \frac{6}{9}$

1. $\frac{3}{4} = \_\_\_ = \_\_\_$

2. $\frac{2}{5} = \_\_\_ = \_\_\_$

3. $\frac{5}{6} = \_\_\_ = \_\_\_$

4. $\frac{1}{7} = \_\_\_ = \_\_\_$

Express each fraction in simplest form.

5. $\frac{6}{8} = \_\_\_$

6. $\frac{8}{20} = \_\_\_$

7. $\frac{10}{15} = \_\_\_$

8. $\frac{9}{21} = \_\_\_$

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Rewrite each pair of unlike fractions as like fractions.

Example

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

9. $\frac{1}{4} =$ _____ $\frac{5}{12} =$ _____

10. $\frac{1}{10} =$ _____ $\frac{2}{5} =$ _____

11. $\frac{5}{9} =$ _____ $\frac{2}{3} =$ _____

12. $\frac{3}{8} =$ _____ $\frac{9}{16} =$ _____

Write equivalent fractions for each fraction. Then find the least common denominator of the fractions.

Example

$\frac{1}{2} = \frac{2}{4} = \frac{3}{6}$

$\frac{2}{3} = \frac{4}{6}$

The least common denominator is 6.

13. $\frac{2}{3} =$

$\frac{3}{4} =$

The least common denominator is _____.

14. $\frac{1}{4} =$

$\frac{5}{6} =$

The least common denominator is _____.

15. $\frac{5}{6} =$

$\frac{3}{8} =$

The least common denominator is _____.

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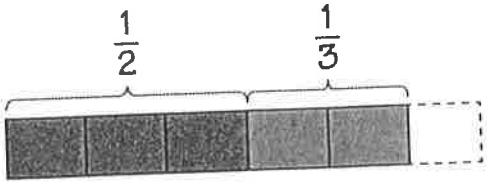
Shade and label each model to show the fractions. Then complete the addition sentence.

Example

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

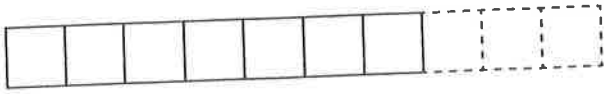


Find the multiples of 2 and 3. Choose the least common multiple. Use it to rewrite $\frac{1}{2}$ and $\frac{1}{3}$ as like fractions.

$\frac{1}{2} + \frac{1}{3} = \frac{3}{6} + \frac{2}{6}$

$= \frac{5}{6}$

16. $\frac{1}{5}, \frac{1}{2}$



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

$=$ _____

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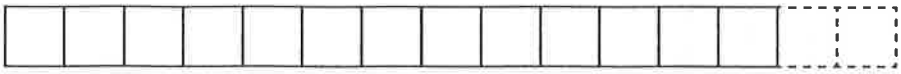
Shade and label each model to show the fractions. Then complete the addition sentence.

17. $\frac{1}{6}, \frac{1}{4}$

$\frac{1}{6} + \frac{1}{4} =$ _____ + _____

$=$ _____

18. $\frac{1}{5}, \frac{2}{3}$



$\frac{1}{5} + \frac{2}{3} =$ _____ + _____

$=$ _____

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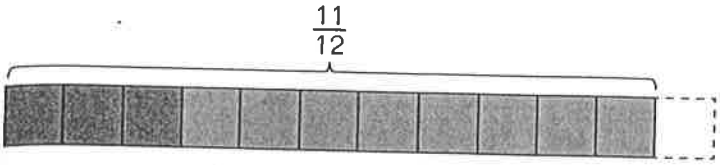
Look at the model. Write two addition sentences.



19. Addition sentence 1:

$$\frac{\square}{12} + \frac{\square}{12} = \frac{\square}{12}$$

20. Addition sentence 2 (fractions in simplest form):

$$\underline{\quad} + \underline{\quad} = \underline{\quad}$$

Add. Express each sum in simplest form.

21. $\frac{1}{3} + \frac{1}{9} =$

22. $\frac{5}{8} + \frac{2}{4} =$

23. $\frac{1}{2} + \frac{6}{7} =$

24. $\frac{4}{8} + \frac{1}{5} =$

Use benchmarks to estimate each sum.

Example

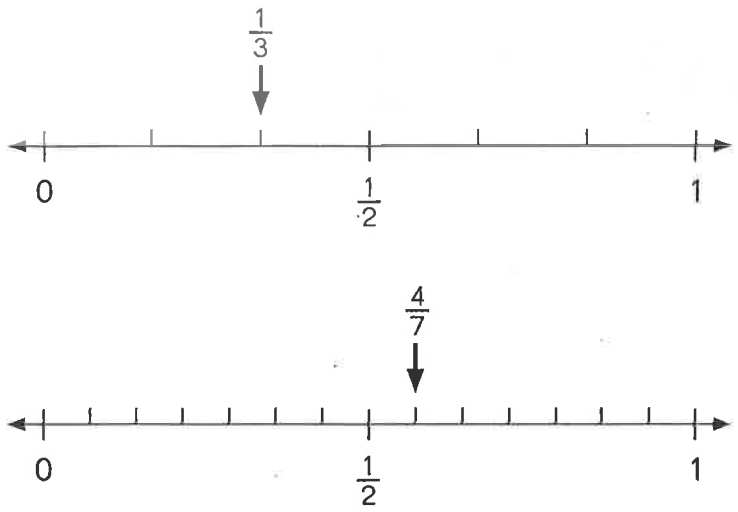
$\frac{1}{3} + \frac{4}{7}$

$\frac{1}{3}$ is about $\frac{1}{2}$.

$\frac{4}{7}$ is about $\frac{1}{2}$.

$\frac{1}{3} + \frac{4}{7}$

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



$\frac{1}{3} + \frac{4}{7}$ is about 1.

25. $\frac{2}{3} + \frac{2}{9}$

26. $\frac{7}{9} + \frac{1}{7} + \frac{3}{5}$