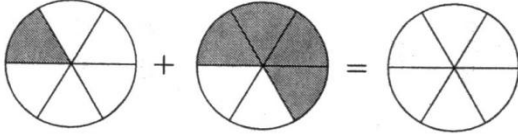
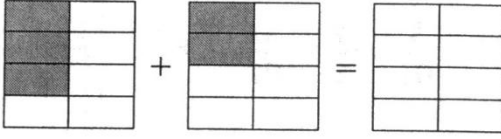


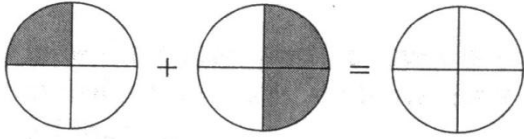
Using Models to Add Fractions

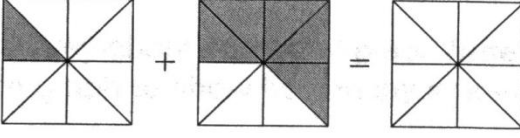
SKILLS

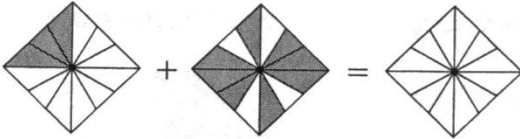
Use the models to add. Write your answer in simplest form.

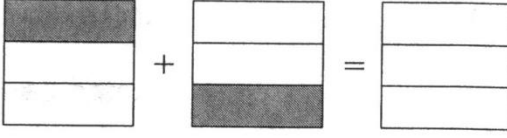
1. 
 $\frac{1}{6} + \frac{4}{6} =$

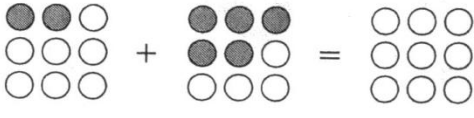
2. 
 $\frac{3}{9} + \frac{2}{9} =$

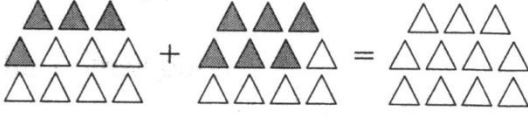
3. 
 $\frac{1}{4} + \frac{2}{4} =$

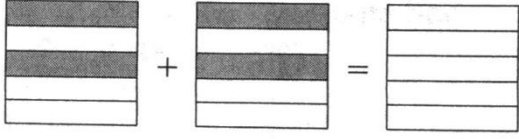
4. 
 $\frac{1}{8} + \frac{5}{8} =$

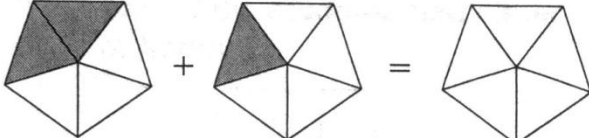
5. 
 $\frac{3}{12} + \frac{8}{12} =$

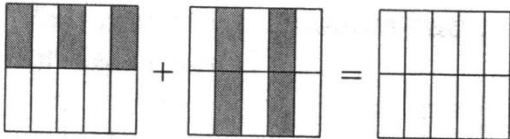
6. 
 $\frac{1}{3} + \frac{1}{3} =$

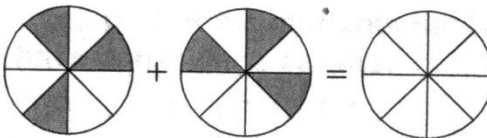
7. 
 $\frac{2}{9} + \frac{5}{9} =$

8. 
 $\frac{4}{11} + \frac{6}{11} =$

9. 
 $\frac{2}{5} + \frac{2}{5} =$

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

11. 
 $\frac{3}{10} + \frac{4}{10} =$

12. 
 $\frac{3}{8} + \frac{3}{8} =$

Using Models to Add Fractions

CRITICAL THINKING AND PROBLEM SOLVING

Complete each problem.

13. $\frac{1}{5} + \frac{?}{?} = \frac{4}{5}$ $\frac{\square}{\square}$

14. $\frac{2}{9} + \frac{?}{?} = \frac{7}{9}$ $\frac{\square}{\square}$

15. $\frac{3}{10} + \frac{?}{?} = \frac{7}{10}$ $\frac{\square}{\square}$

16. $\frac{3}{8} + \frac{?}{?} = \frac{6}{8}$ $\frac{\square}{\square}$

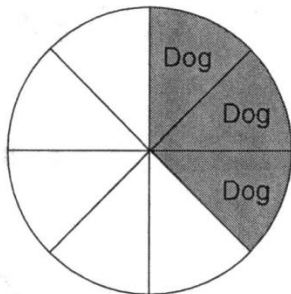
17. $\frac{5}{12} + \frac{?}{?} = \frac{11}{12}$ $\frac{\square}{\square}$

18. $\frac{1}{4} + \frac{?}{?} = \frac{3}{4}$ $\frac{\square}{\square}$

19. Make the circle graph show the results of a survey about students' pets. Write a kind of pet in each fractional part of the circle graph to show how many students had that pet.

For example: $\frac{3}{8}$ of the students had dogs, so write "dog" in three of the fractional parts.

Students' Pets



$\frac{3}{8}$ of the students had dogs.

$\frac{2}{8}$ of the students had cats.

$\frac{1}{8}$ of the students had birds.

$\frac{1}{8}$ of the students had horses.

$\frac{1}{8}$ of the students had other pets.

Use the finished graph to answer each question. Write the addition problem you used to find the answer.

20. What part of the students had either cats or dogs?

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

21. What part of the students had either dogs or horses?

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

22. What part of the students had cats, horses, or birds?

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

23. What part of the students did NOT have either dogs or cats?

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