

Remember, of means multiply. Please complete on LOOSE LEAF and show all thinking.

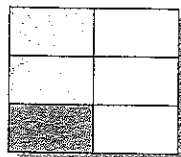
4-18 → DUE TUES. OCT. 20th

Practice # 19-25 → Extension

Write all answers in simplest form.

The diagram illustrates the statement $\frac{1}{3} \times \frac{1}{2} = \frac{1}{6}$.

Draw a diagram to find each of the following products.



1. $\frac{1}{4} \times \frac{1}{2}$ 2. $\frac{1}{3} \times \frac{2}{3}$ 3. $\frac{1}{2} \times \frac{3}{5}$

Multiply.

4. $\frac{1}{4} \times \frac{1}{3}$ 5. $\frac{2}{3} \times \frac{1}{5}$ 6. $\frac{1}{2} \times \frac{3}{4}$
 7. $\frac{5}{8} \times \frac{2}{3}$ 8. $\frac{3}{5} \times \frac{5}{6}$ 9. $\frac{3}{4} \times \frac{5}{6}$

Calculate.

10. $\frac{1}{2}$ of $\frac{1}{4}$ 11. $\frac{3}{4}$ of $\frac{2}{3}$ 12. $\frac{2}{3}$ of 6

~~Multiply~~ Multiply.

13. $3 \times 1\frac{1}{2}$ 14. $2\frac{1}{4} \times 4$ 15. $3 \times 2\frac{1}{6}$
 16. $1\frac{2}{3} \times 4$ 17. $\frac{1}{4} \times 2\frac{1}{3}$ 18. $\frac{3}{8} \times 1\frac{1}{2}$
 19. $\frac{4}{5} \times 3\frac{3}{4}$ 20. $2\frac{3}{4} \times 3\frac{1}{3}$ 21. $2\frac{1}{2} \times 1\frac{1}{9}$

Multiply.

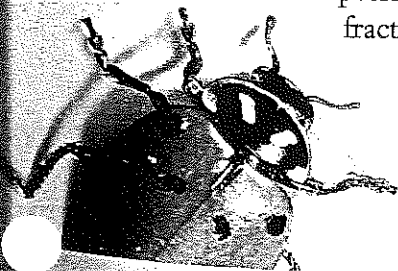
22. $\frac{2}{3} \times \frac{1}{2} \times \frac{4}{5}$ 23. $\frac{1}{4} \times 2 \times \frac{5}{6}$
 24. $\frac{1}{2} \times 2\frac{1}{3} \times \frac{3}{4}$ 25. $1\frac{1}{5} \times 2\frac{1}{2} \times 3\frac{2}{3}$

Write the reciprocal.

26. $\frac{1}{4}$ 27. 3 28. $\frac{3}{5}$ 29. $\frac{5}{4}$
 30. $\frac{2}{9}$ 31. $3\frac{1}{2}$ 32. $2\frac{1}{3}$ 33. $1\frac{7}{8}$

Problems and Applications

34. Insects account for about $\frac{5}{6}$ of known animal species. About $\frac{1}{4}$ of insect species are species of beetles. What fraction of all animal species are species of beetles?



35. A marsupial, such as a kangaroo, carries its young in a pouch. About $\frac{1}{25}$ of mammal species are marsupials. About 4250 species of mammals are known. How many species of marsupials are there?

36. Forests once covered $\frac{1}{3}$ of the land on Earth. Two thirds of the forested land has been cleared. What fraction of the land on Earth is now covered in forests?

37. The Bayview Bobcats play an 80-game season. They won $\frac{3}{5}$ of their games in the first half of the season and $\frac{3}{4}$ of their games in the second half of the season. How many games did they win in all?

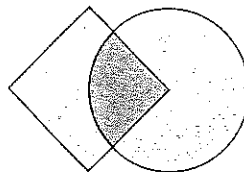
38. Summerside has $\frac{1}{2}$ as many thunderstorms per year as Edmonton. How many times more thunderstorms per year does Edmonton have than Summerside?

39. Neptune completes $1\frac{1}{2}$ turns about its axis each day. How many turns does it complete in
 a) 1 week? b) April? c) 12 h?

40. Can the reciprocal of a mixed number be another mixed number? Explain.

LOGIC POWER

The circle and the square intersect at 2 points.



Draw diagrams to show a circle and a square intersecting at 3, 4, and 5 points.