ultiplying mixed numbers

ultiply mixed numbers by whole numbers

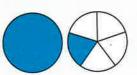
Multiply these mixed numbers using the diagrams to help you. Write your answer as a mixed number.

a $3\frac{1}{3} \times 2$



Example

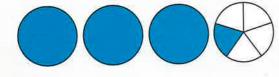




Remember to put the fractions together to make wholes.







 $f^{-2}\frac{1}{8} \times 5$



g $3\frac{1}{7} \times 6$



h $2\frac{1}{10} \times 8$





1 Multiply these mixed numbers.

a
$$2\frac{2}{3} \times 4$$
.

$$b \ 3\frac{2}{5} \times 3$$

$$2\frac{4}{6} \times 5$$

c
$$2\frac{4}{6} \times 5$$
 d $3\frac{3}{4} \times 4$

e
$$3\frac{2}{7} \times 5$$
 f $4\frac{3}{5} \times 6$

h
$$2\frac{6}{8} \times 5$$

$$g 5\frac{2}{7} \times 4$$

$$4\frac{3}{5} \times 8$$
 j $6\frac{3}{4} \times 7$

$$k \ 5\frac{1}{2} \times 3$$

$$4\frac{2}{6} \times 7$$

$$m = 7\frac{2}{5} \times 3$$

n
$$8\frac{1}{9} \times 6$$

How to multiply mixed numbers:

- Change the mixed number to an improper fraction.
- Next, change the whole number to a fraction.
- Then, multiply the numerators.
- Then, multiply the denominators.
- Finally, convert your answer back to a mixed number.

Example

$$2\frac{3}{4} \times 3 = \frac{11}{4} \times 3 = \frac{11}{4} \times \frac{3}{1} = \frac{11 \times 3}{4 \times 1} = \frac{33}{4} = 8\frac{1}{4}$$

- 2 A mixed number has been multiplied by 4. The answer is $7\frac{6}{8}$. What was the mixed number?
- 3 A group of 4 friends have 11 bananas to share. One person says we can all have $2\frac{4}{6}$ each, another person says we can all have $2\frac{9}{12}$ each. Who is right? How do you know?



1 Multiply these mixed numbers.

a
$$4\frac{5}{6} \times 3$$

a
$$4\frac{5}{6} \times 3$$
 b $3\frac{4}{8} \times 5$ c $4\frac{5}{9} \times 4$

$$c 4\frac{5}{9} \times 4$$

d
$$5\frac{2}{7} \times 6$$

$$e \ 3\frac{3}{5} \times 7$$

$$f = 4\frac{2}{3} \times 8$$

e
$$3\frac{3}{5} \times 7$$
 f $4\frac{2}{3} \times 8$ g $2\frac{3}{10} \times 4$

h
$$5\frac{4}{7} \times 5$$

2 Choose two of the calculations from Question 1 and write a word problem to go with them.

