

# Multiply mixed numbers by integers

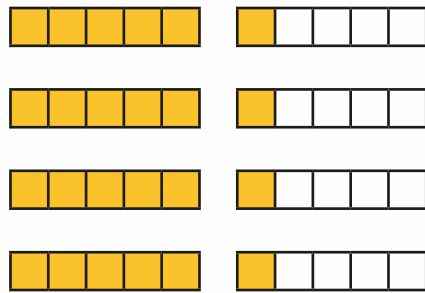
1 Complete the calculations.

a)  $4 \times 1\frac{1}{5}$

$$4 \times 1 = 4$$

$$4 \times \frac{1}{5} = \frac{4}{5}$$

$$4 + \frac{4}{5} = 4\frac{4}{5}$$

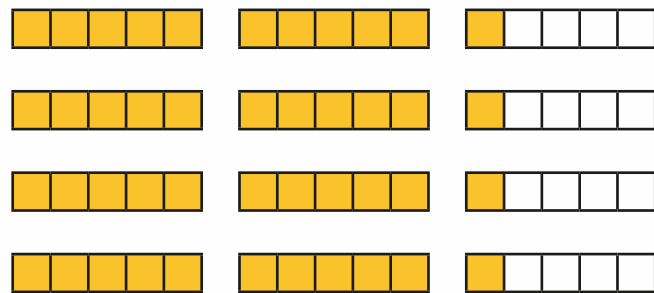


b)  $4 \times 2\frac{1}{5}$

$$4 \times 2 = 8$$

$$4 \times \frac{1}{5} = \frac{4}{5}$$

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

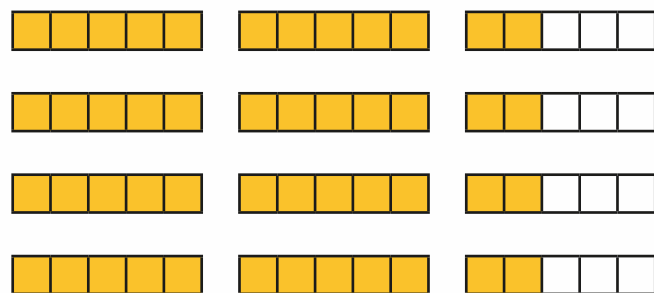


c)  $4 \times 2\frac{2}{5}$

$$4 \times 2 = 8$$

$$4 \times \frac{2}{5} = \frac{8}{5} = 1\frac{3}{5}$$

$$8 + 1\frac{3}{5} = 9\frac{3}{5}$$

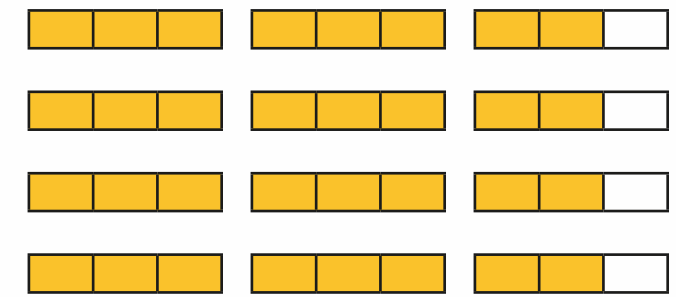


d)  $4 \times 2\frac{2}{3}$

$$4 \times 2 = 8$$

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

$$8 + 2\frac{2}{3} = 10\frac{2}{3}$$



2 Complete the multiplications.

a)  $3 \times 8\frac{2}{7} = 24\frac{6}{7}$

d)  $4 \times 6\frac{3}{19} = 24\frac{12}{19}$

b)  $2 \times 12\frac{2}{11} = 24\frac{4}{11}$

e)  $2\frac{2}{25} \times 12 = 24\frac{24}{25}$

c)  $6\frac{2}{11} \times 4 = 24\frac{8}{11}$

f)  $3\frac{1}{15} \times 8 = 24\frac{8}{15}$

What is the same and what is different about your answers?

*They all contain 24 wholes but the fraction is different*

3 One bag of potatoes weighs  $1\frac{3}{4}$  kg.

How much do 5 bags of potatoes weigh?



$$8\frac{3}{4} \text{ kg}$$

4 Complete the calculations.

a)  $5 \times 2\frac{2}{3} = 10 + \frac{10}{3} = 13\frac{1}{3}$

b)  $4\frac{3}{7} \times 5 = 20 + \frac{15}{7} = 22\frac{1}{7}$

c)  $8 \times 2\frac{5}{12} = 16 + \frac{40}{12} = 19\frac{1}{3}$

d)  $7 \times 3\frac{1}{5} = 21 + \frac{7}{5} = 22\frac{2}{5}$

e)  $4\frac{2}{9} \times 8 = 32 + \frac{16}{9} = 33\frac{7}{9}$

f)  $11 \times 4\frac{3}{10} = 44 + \frac{33}{10} = 47\frac{3}{10}$

5

$5 \times 3\frac{2}{11}$  is equal to  
 $3 \times 5\frac{2}{11}$



Do you agree with Ron? No

Explain why.

$5 \times 3\frac{2}{11} = 15\frac{10}{11}$

$3 \times 5\frac{2}{11} = 15\frac{6}{11}$

6

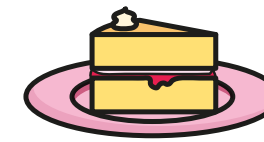
Eva drinks  $3\frac{1}{3}$  litres of water a day.

How many litres of water does she drink in a week?

$23\frac{1}{3}$  l

7

Here is a recipe for a birthday cake.



Butter  $1\frac{3}{8}$  kg  
Sugar  $1\frac{5}{16}$  kg  
Self-raising flour  $2\frac{1}{4}$  kg  
6 eggs

a) How much flour is needed for 3 birthday cakes?

$6\frac{3}{4}$  kg

b) Dora makes 4 birthday cakes.

How much more butter does she use than sugar?

$\frac{1}{4}$  kg