**I can multiply a mixed number by an integer (integer means whole number)**

***Part 1- complete the missing parts from the table***

|  |  |  |  |
| --- | --- | --- | --- |
| Calculation | Repeated addition (whole number) | Repeated addition (fraction) | Answer |
| $1\frac{1}{4} $x 3 | 1 + 1 + 1 = 3 | $\frac{1}{4}+\frac{1}{4}+\frac{1}{4}$ = $\frac{3}{4}$ | 3 + $\frac{3}{4}= 3\frac{3}{4}$ |
| $2\frac{1}{5}$ x 4 | 2 + 2 + 2 + 2 =  | $\frac{1}{5}+ \frac{1}{5}+ \frac{1}{5}+ \frac{1}{5}$ = |  |
| 4 x $3\frac{1}{6}$ | 3 + 3 + 3 + 3 =  |  |  |
| $$5 x 2\frac{1}{7}$$ |  |  |  |
|  | 4 + 4 + 4 + 4 + 4 =  | $\frac{1}{8}+\frac{1}{8}+\frac{1}{8}+\frac{1}{8}+\frac{1}{8}$ = |  |
|  |  |  | $$21+ \frac{7}{9}=21\frac{7}{9}$$ |

***Part 2 - complete the sentences to complete the calculations***

1. $3\frac{2}{5} x 2$ *=*6$\frac{4}{5}$

The whole number \_3\_ multiplied by the integer \_2\_ equals \_6\_

The fraction $\frac{2}{5}$ multiplied by the integer \_2\_ equals $\frac{4}{5}$

The whole and the part together equal 6$\frac{4}{5}$

1. $3\frac{2}{7} x 3$ *=*

The whole number \_\_\_ multiplied by the integer \_\_\_ equals \_\_\_

The fraction $\frac{}{7}$ multiplied by the integer \_\_\_ equals $\frac{}{7}$

The whole and the part together equal ­\_\_\_\_

1. $4\frac{2}{8} x 3$ *=*

The whole number \_\_\_ multiplied by the integer \_\_\_ equals \_\_\_

The fraction $\frac{}{8}$ multiplied by the integer \_\_\_ equals $\frac{}{8}$

The whole and the part together equal \_\_\_\_

1. $5\frac{2}{10} x 4$ *=*

The whole number \_\_\_ multiplied by the integer \_\_\_\_ equals \_\_\_

The fraction $\frac{}{10}$ multiplied by the integer \_\_\_ equals $\frac{}{10}$

The whole and the part together equal \_\_\_\_

***Part 3 - complete the sentences to complete the calculations which will have an improper fraction to convert.***

1. $3\frac{2}{4} x 3$ *=*10$\frac{2}{4}$

The whole number \_3\_ multiplied by the integer \_3\_ equals \_9\_

The fraction $\frac{2}{4}$ multiplied by the integer \_3\_ equals $\frac{6}{4}$

The improper fraction $\frac{6}{4}$ as a mixed number is $1\frac{2}{4}$

The whole and the part together equal 10$\frac{2}{4}$

1. $4\frac{2}{6} x 4$ *=*

The whole number \_\_\_ multiplied by the integer \_\_\_\_ equals \_\_\_

The fraction $\frac{}{6}$ multiplied by the integer \_\_\_ equals $\frac{}{6}$

The improper fraction $\frac{}{6}$ as a mixed number is \_\_\_\_

The whole and the part together equal \_\_\_\_

1. $4\frac{2}{7} x 5$ *=*

The whole number \_\_\_ multiplied by the integer \_\_\_\_ equals \_\_\_

The fraction $\frac{}{7}$ multiplied by the integer \_\_\_ equals $\frac{}{7}$

The improper fraction $\frac{}{7}$ as a mixed number is \_\_\_\_

The whole and the part together equal \_\_\_\_

1. $5\frac{5}{8} x 4$ *=*

The whole number \_\_\_ multiplied by the integer \_\_\_\_ equals \_\_\_

The fraction $\frac{}{8}$ multiplied by the integer \_\_\_ equals $\frac{}{8}$

The improper fraction $\frac{}{8}$ as a mixed number is \_\_\_\_

The whole and the part together equal \_\_\_\_

***Challenges – Remember you don’t have to do these, but do have a go if you feel comfortable.***

1. Miss Thomas runs 2$\frac{2}{4}$ miles three times per week. Mrs Stone runs 3$\frac{3}{4}$ miles twice a week. Who runs the furthest during the week? Explain your answer.
2. Miss Fowler swims 3$\frac{3}{5}$ miles three times per week. Mrs Poole swims 4$\frac{5}{6}$ miles twice a week. Who swims the furthest during the week? Explain your answer.
3. Mrs O’Neill skips 4$\frac{5}{7}$ miles three times per week. Mrs Codd skips 5$\frac{7}{8}$ miles twice a week. Who skips the furthest during the week? Explain your answer.