Name _____ Date _____

Multiplying a Mixed Number by a Whole Number

Example



Way A: multiply the wholes and the parts separately.

Way B: write the mixed number as an improper fraction: $2\frac{1}{3} = \frac{7}{3}$.

$$4 \times 2\frac{1}{3} = (4 \times 2) + \left(4 \times \frac{1}{3}\right) = 8 + \frac{4}{3} = 9\frac{1}{3}$$

$$4 \times 2\frac{1}{3} = 4 \times \frac{7}{3} = \frac{28}{3} = 9\frac{1}{3}$$

1 ON YOUR OWN **Way A.** Multiply the wholes, then the parts, then add.

a) $5 \times 1\frac{1}{2} = \square + \frac{\square}{2} = \square\frac{\square}{2}$

b) $3 \times 2\frac{1}{4} = \square + \frac{\square}{4} = \square\frac{\square}{4}$

c) $4 \times 3\frac{2}{5} = \square + \frac{\square}{5} = \square\frac{\square}{5}$

d) $3 \times 1\frac{3}{5} = \square + \frac{\square}{5} = \square\frac{\square}{5}$

Names (pair) _____ Date _____

2 ON YOUR OWN **Way B.** Write as an improper fraction, cancel if you can and multiply.

a) $5 \times 2\frac{2}{3} = 5 \times \frac{\square}{3} = \frac{\square}{\square} = \square\frac{\square}{\square}$

b) $3 \times 1\frac{5}{6} = 3 \times \frac{\square}{6} = \frac{\square}{\square} = \square\frac{\square}{\square}$

c) $8 \times 3\frac{1}{4} = 8 \times \frac{\square}{4} = \frac{\square}{\square} = \square\frac{\square}{\square}$

3 IN PAIRS **Which way is easier?** One student uses way A, the other way B. Compare the answers and circle the easier way.

Product	Way A	Way B	Easier
$6 \times 3\frac{1}{2}$			A / B
$8 \times 1\frac{3}{4}$			A / B
$10 \times 2\frac{2}{5}$			A / B
$3 \times 4\frac{1}{6}$			A / B

4 IN A GROUP **Stories.** Write the product, work it out and answer. Each member of the group explains one story.

One bag of flour weighs $2\frac{3}{4}$ kg. How much do 6 bags weigh?

Answer: _____

The track round the playground is $1\frac{2}{5}$ km. Ivan ran 5 laps. How many kilometres did he run?

Answer: _____

★ ON YOUR OWN **Exit card.** $3 \times 3\frac{2}{5} = \square + \frac{\square}{5} = \square\frac{\square}{5}$