Great MathWorksheets

Grade 6 – Lesson 11

Math Practice Sheets

Arithmetic of Fractions and Mixed Numbers Part II

Examples

Practice Questions

Extra Challenge Unit

Student Name

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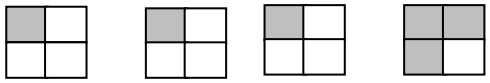
Unit 11.1 Multiplying Fraction and Integers

Example

You know that we can represent multiplication by a whole number as repeated addition. For example, 3 × 4 = 4 + 4 + 4 or, 3 + 3 + 3 + 3

You can multiply a whole number by a faction using the same method. i.e.

$3 \times \frac{1}{4} = \frac{1}{4} + \frac{1}{4} + \frac{1}{4} = \frac{3}{4}$



There is another way to multiply with fractions. Remember that a whole number can be written as an improper fraction with 1 in the denominator.

So, $3 = \frac{3}{1}$

$\therefore\ 3.\frac{1}{4} = \frac{3}{1} \times \frac{1}{4} = \frac{3 \times 1}{1 \times 4} = \frac{3}{4}$ ← Multiply numerators ← Multiply denominators

$\frac{1}{4}$ of 3 = $\frac{1}{4}$ × 3 = 3 × $\frac{1}{4}$

Exercise

1. Match the following.

a) $2 \times \frac{1}{5}$

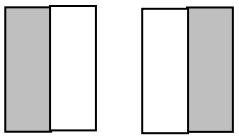
b) $2 \times \frac{1}{2}$

c) $3 \times \frac{2}{3}$

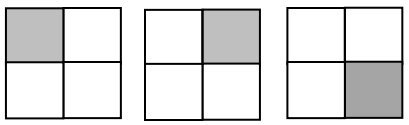
d) $3 \times \frac{1}{4}$

A)

B)



C)



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