Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

UNIT 2 LESSON 4

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| AIM: | SWBAT divide mixed numbers and fractions |

**THINK ABOUT IT!**

The Hartford Academy Middle School cross country team is running a 3 ¾ miles race. Every ¾ mile, the runners are given a cup of water to hydrate. How many cups of water will the runners get by the end of the race?

Key Point

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**Interaction with New Material**

***Ex #1)*** Evaluate the expression $2\frac{2}{3}÷\frac{4}{6}$

***Ex #2)***Evaluate the expression $3\frac{1}{2}÷\frac{3}{4}$

**PARTNER PRACTICE**

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| *Bachelor Level* |

1. Evaluate each expression using a model and using the algorithm
	1. $2\frac{4}{5}÷\frac{2}{5}$
	2. $3\frac{5}{6}÷\frac{2}{3}$

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| *Master Level* |

1. Evaluate the expression. Simplify the quotient.

$$3\frac{1}{2}÷1\frac{2}{5}$$

1. What is the width of the rectangle below?

A = $4\frac{1}{4}$ sq. ft.

2 ½ ft.

Select all choices below that represent the width of the rectangle:

a) $8$

b) $3\frac{1}{2}$

c) $2\frac{1}{2}$

d) $1\frac{7}{4}$

e) $2\frac{3}{4}$

f) $\frac{11}{4}$

**Check for Understanding**

Find the quotient: $1\frac{1}{4}÷\frac{3}{8}$

1. 1
2. $1\frac{2}{5}$
3. 3
4. $3\frac{1}{3}$

**INDEPENDENT PRACTICE**

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| *Bachelor Level* |

1. Evaluate each expression using a model
	1. $2\frac{5}{8}÷\frac{3}{8}$
	2. $2\frac{2}{3}÷\frac{1}{2}$
2. Mr. Wynn found the quotient of $1\frac{4}{6}÷\frac{2}{6}$ and got an answer of 3. What mistake did he make?

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| *Master Level* |

1. Samuel is planting marigold seeds in his garden. His garden is 2 $\frac{1}{2}$ feet long and he wants to plant seeds every $\frac{5}{8}$ foot. How many seeds can he plant?

**Show your work.**

1. Write two different expressions that match the model below.



Expression 1: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Expression 2: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Find the value of n that would make the equation true.

$$\frac{2}{5}x n=3\frac{1}{2}$$

n = \_\_\_\_\_\_\_\_

1. Evaluate the expression. Simplify the quotient.

$$2\frac{7}{5}÷1\frac{3}{2}$$

1. Andrea is framing a picture for her great grandmother. The picture has an area of 8 $\frac{1}{2}$ square inches and the width is 2 $\frac{3}{4}$ inches. If the width of the picture frame is 3 inches, will the picture fit? **Explain**.

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| *PhD Level* |

1. The area of a rectangle is 12 ¾ square feet. The length is $3\frac{3}{8}$ feet. Determine which statements below are “true” and which are “false.”

|  |  |  |
| --- | --- | --- |
|  | True | False |
| The width is the same as the length | □ | □ |
| The width is $3\frac{7}{9}$ feet | □ | □ |
| The perimeter is $7\frac{11}{72}$ feet | □ | □ |
| The perimeter is $14\frac{11}{36}$ feet | □ | □ |

1. Evaluate the expression.

$$\frac{7}{8}÷1\frac{1}{4}$$

Does the magnitude of the quotient make sense relative to the dividend and divisor? Why?

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**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**EXIT TICKET**

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| Self-assessment | I mastered the learning objective today. | I am almost there.  | Need more practice and feedback. |
| Teacher feedback | You mastered the learning objective today. | You are almost there.  | You need more practice and feedback. |

1. Evaluate the expression $4\frac{1}{2}÷\frac{3}{4}$
2. Write and evaluate an expression that matches the model below

