Name: Key

Per:

MATH PRACTICE

Week 14

Due: Thursday, 12/13

5-14. Find each of the parts of parts described below.

a) $\frac{3}{4}$ of $\frac{5}{8}$ = $\frac{15}{32}$

b) $\frac{3}{8} \times \frac{5}{8}$ = $\frac{15}{64}$

c) $\frac{2}{3}$ of $\frac{7}{8}$ = $\frac{14}{24} = \frac{7}{12}$

d) $\frac{4}{5} \times \frac{3}{7}$ = $\frac{12}{35}$

5-7 Change each fraction greater than one to a mixed number, and change each mixed number to a fraction greater than one. (improper)

a) $4\frac{4}{5} = \frac{24}{5}$

b) $\frac{17}{7} = 2\frac{3}{7}$

c) $\frac{68}{3} = 22\frac{2}{3}$

d) $4\frac{13}{15} = \frac{73}{15}$

5-34. Complete the diagram below and write the multiplication problem and answer that would go with it.

	4	$+\frac{1}{5}$
3	12	$\frac{3}{5} = \frac{9}{15}$
$+\frac{2}{3}$	$\frac{8}{3} = \frac{40}{15}$	$\frac{2}{15}$

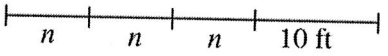
$12 + \frac{49}{15} + \frac{2}{15} = 12\frac{51}{15}$

$15\frac{6}{15} = 15\frac{2}{5}$

$4\frac{1}{5} \times 3\frac{2}{3} = 15\frac{6}{15}$ or $15\frac{2}{5}$

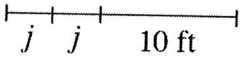
5-16. Write an **algebraic expression** to represent the length of each rope shown in the diagrams below. Then use the equation you create to help you figure out the value of each variable.

a) The total length of rope is 25 feet.



$3n + 10$ $n = 5ft$

b) The total length of rope is 13 feet.



$2j + 10$ $n = 3ft$

5-49. A rectangular backyard measures $14\frac{1}{2}$ feet by $18\frac{1}{2}$ feet. What is the total area of the backyard?

	14	$\frac{1}{2}$
18	152	$\frac{18}{2} = 9$
$\frac{1}{2}$	$\frac{14}{2} = 7$	$\frac{1}{4}$

	10	4
10	100	40
8	80	32

$= \frac{100}{120}\ \frac{32}{152}$

$152 + 7 + 9 + \frac{1}{4} = 168\frac{1}{4} ft^2$

The area is $168\frac{1}{4}$ square feet.