Name: _____

Date: _____   Score: _____

Finding Equivalent Ratios Given the Total Quantity

1. The table below shows the combination of a prepackaged dry mix and water to make a certain preparation. The mix requires 1 gallon of water with 60 pounds of dry mix. Given that 1 gallon of water is equal to 8 pounds of water. Complete the table given below such that the ratios of dry mix and water in each row is equivalent. The total quantities of the preparation are given.

Dry Mix (pounds)	Water (pounds)	Total (pounds)
_____	8	68
75	_____	85
_____	$1\frac{2}{3}$	$14\frac{1}{6}$
$4\frac{1}{2}$	_____	$5\frac{1}{10}$

2. The ratio of the number of miles run to the number of miles travelled by bike is equivalent for each row in the table. The total amount of distance covered is given. Complete the table.

Distance Run (miles)	Distance Biked (miles)	Total amount of exercise (miles)
2	_____	6
$3\frac{1}{2}$	_____	$10\frac{1}{2}$
_____	$5\frac{1}{2}$	$8\frac{1}{4}$
$2\frac{1}{8}$	_____	$6\frac{3}{8}$
_____	$3\frac{1}{3}$	5

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Answers

1. The table below shows the combination of a prepackaged dry mix and water to make a certain preparation. The mix requires 1 gallon of water with 60 pounds of dry mix. Given that 1 gallon of water is equal to 8 pounds of water. Complete the table given below such that the ratios of dry mix and water in each row is equivalent. The total quantities of the preparation are given.

Dry Mix (pounds)	Water (pounds)	Total (pounds)
60	8	68
75	10	85
$12\frac{1}{2}$	$1\frac{2}{3}$	$14\frac{1}{6}$
$4\frac{1}{2}$	$\frac{3}{5}$	$5\frac{1}{10}$

2. The ratio of the number of miles run to the number of miles travelled by bike is equivalent for each row in the table. The total amount of distance covered is given. Complete the table.

Distance Run (miles)	Distance Biked (miles)	Total amount of exercise (miles)
2	4	6
$3\frac{1}{2}$	7	$10\frac{1}{2}$
$2\frac{3}{4}$	$5\frac{1}{2}$	$8\frac{1}{4}$
$2\frac{1}{8}$	$4\frac{1}{4}$	$6\frac{3}{8}$
$1\frac{2}{3}$	$3\frac{1}{3}$	5