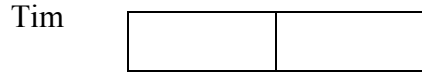# Swimming Laps

NAME:_____ DATE: _____ HOUR: _____

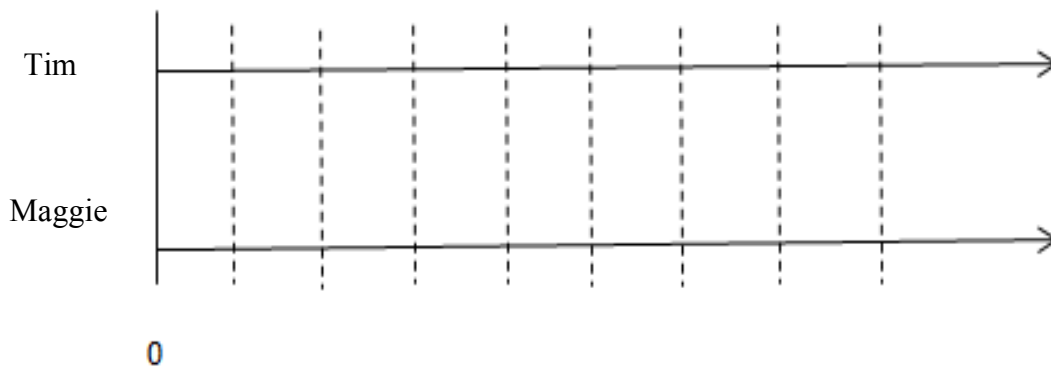**1)** Tim swims 2 laps for every 3 laps that Maggie swims. If Tim swims 18 laps, how many laps does Maggie swim? Use the tape diagram below to justify your solution.

Tim

Maggie

2) Complete the following table representing Tim's laps to Maggie's lap

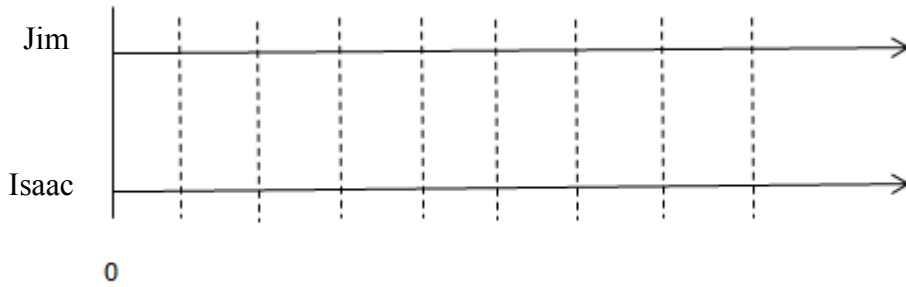| Tim		2		6		
Maggie	0	3				

3) Transfer the table data to the double number line below to determine how many laps Tim swims when Maggie swims 33 laps.

Tim

Maggie

0

Swimming Laps

NAME:_____ DATE: _____ HOUR: _____

4) Jim and Isaac were swimming laps for swim practice. The ratio of laps Jim swam to the number of laps Isaac swam was 4 to 3. Use the double number line to determine the number of laps Jim swam if Isaac swam 24 laps.

Jim

Isaac

0

5) Transfer the double number line data to the table below to determine how many laps Isaac swam when Jim swam 24 laps.

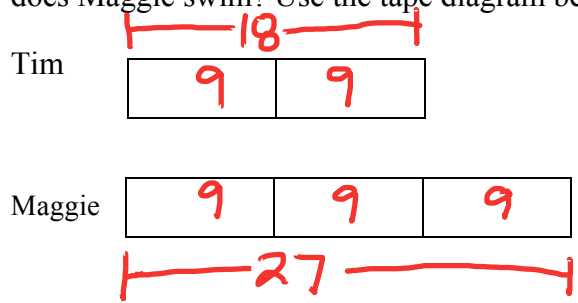| Jim	0						
Isaac	0						

6) Create a tape diagram to model the ratio of Jim's laps to Isaac's laps and use it to determine how many total laps the boys swam when Isaac swam 27 laps.

Swimming Laps

Key

NAME:_____ DATE:_____ HOUR:_____

1) Tim swims 2 laps for every 3 laps that Maggie swims. If Tim swims 18 laps, how many laps does Maggie swim? Use the tape diagram below to justify your solution.
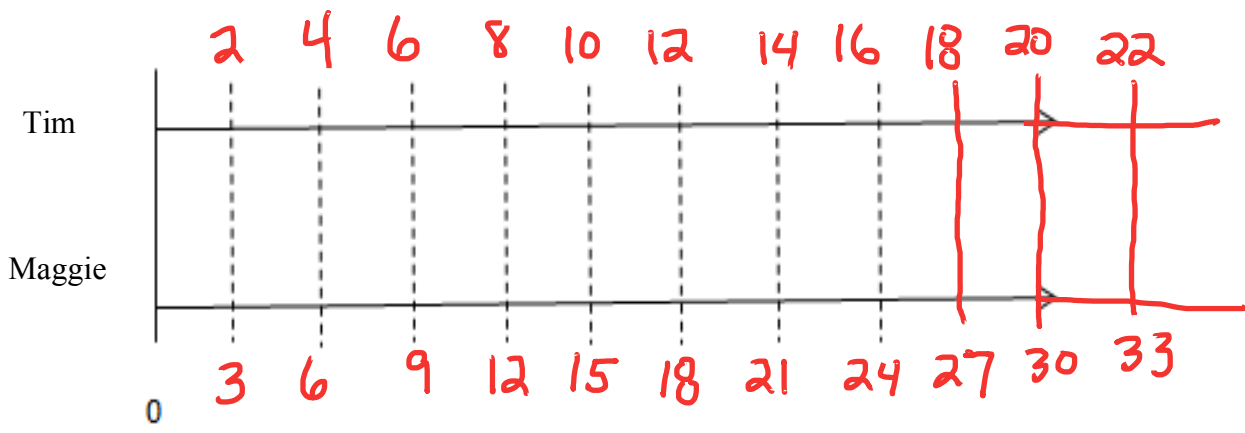
Tim ⊢—18—⊣

9	9

Maggie

9	9	9

⊢—27—⊣

(27 laps)

2) Complete the following table representing Tim's laps to Maggie's lap

Tim	O	2	4	6	8	10
Maggie	0	3	6	9	12	14

3) Transfer the table data to the double number line below to determine how many laps Tim swims when Maggie swims 33 laps.

Tim: 2 4 6 8 10 12 14 16 18 20 22
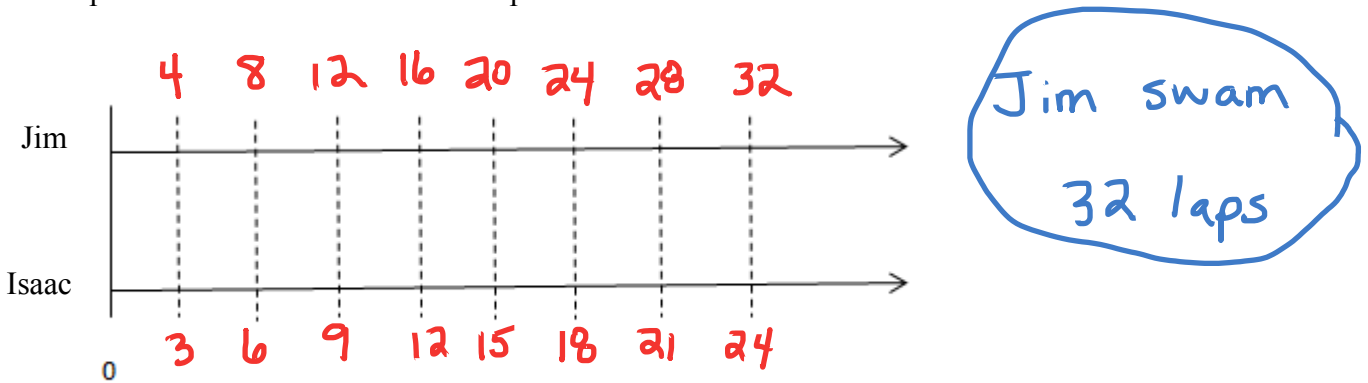
Maggie: 0 3 6 9 12 15 18 21 24 27 30 33

(Tim swims 22 laps)

Swimming Laps

NAME:_____ DATE: _____ HOUR: _____

4) Jim and Isaac were swimming laps for swim practice. The ratio of laps Jim swam to the number of laps Isaac swam was 4 to 3. Use the double number line to determine the number of laps Jim swam if Isaac swam 24 laps.

Jim   4 8 12 16 20 24 28 32

Isaac   3 6 9 12 15 18 21 24
0

Jim swam 32 laps

5) Transfer the double number line data to the table below to determine how many laps Isaac swam when Jim swam 24 laps.

Jim	0	4	8	12	16	20	24
Isaac	0	3	6	9	12	15	18

Isaac swam 18 laps

6) Create a tape diagram to model the ratio of Jim's laps to Isaac's laps and use it to determine how many total laps the boys swam when Isaac swam 27 laps.

36

Jim | 9 | 9 | 9 | 9 |

Isaac | 9 | 9 | 9 |

27

63 total laps

63 total laps