

LITTLE
BIG
LESSONS

Rick Hansen
Foundation 
School Program

PRESENTED BY



FUTURE PROSPECTS

Scotiabank®

CALCULATING THE DISTANCE

RECOMMENDED FOR GRADES 4-7

RECOMMENDED FOR GRADE 4/5

3. How many kilometres did Rick and his team travel from:

- a. Vancouver (1985) to Yuma, AZ
- b. Edinburgh to London
- c. Sydney to Beijing
- d. Williams Lake to Vancouver (1987)

City	Total Miles
Vancouver (1985)	0
Yuma, AZ	1,628
Edinburgh	4,815
London	5,230
Sydney	11,049
Beijing	13,962
Williams Lake	23,893
Vancouver (1987)	25,251

**When converting miles to kilometres, the Rick Hansen Foundation uses 1.609 as the conversion factor.*

4. If Rick wheeled 8 hours per day and he was capable of wheeling the average rate of 70 strokes per minute, how many strokes would he have made per wheeling day? If Rick wheeled for 470 wheeling days, how many strokes did he make on the entire Man in Motion Tour?

RECOMMENDED FOR GRADES 5 AND UP

Note: Rick travelled 40,075 km over 470 wheeling days.

5. Rick wore out 94 pairs of gloves. How many kilometres did one pair last (kilometres per pair of gloves)? Round to the nearest one hundredth.

6. Rick wore out 160 tires. How many kilometres on average did one tire last? (Kilometres per tire). Round to the nearest one hundredth.

7. If Rick were to travel another 5,000 km, how many more gloves and tires would he require?

SUPER MATH CHALLENGE

8. The diameter of Rick's wheel is 60cm.

a. How far does the wheel travel in one rotation?

Remember circumference = $\pi \times$ diameter

b. Given this, how many rotations would be required to wheel around the world?

ANSWER KEY

1. Answer: $40,075 \text{ km} / 470 \text{ days} = 85.26 \text{ km/day}$

2. Step One: $\$1.7 \text{ million} / 40,075 \text{ km} = \$42.425/\text{km}$

Step Two: $\$42.42 \times 11,555 = \$490,163.10$

3. a. $1628 \text{ miles} \times 1.609 = 2619.45 \text{ km}$

b. $415 \text{ miles} \times 1.609 = 667.74 \text{ km}$

c. $2913 \text{ miles} \times 1.609 = 4687.02 \text{ km}$

d. $1358 \text{ miles} \times 1.609 = 2185.02 \text{ km}$

4. Step One: $70 \text{ strokes/min} \times 60 \text{ minutes} = 4,200 \text{ strokes/hour} \times 8 \text{ hours} = 33,600 \text{ strokes per day}$
Step Two: $470 \text{ days} \times 33,600 \text{ strokes} = 15,792,000 \text{ strokes during the entire tour}$

5. $40,075 / 94 = 426.32 \text{ km/pair of gloves}$

6. $40,075 / 160 = 250.47 \text{ km/tire}$

7. $5,000 / 426.32 = 11.73 \text{ gloves}$, and $5,000 / 250.47 = 19.96 \text{ tires}$

8. a. $3.14 \times 60 = 188.4 \text{ cm}$

b. Convert $40,075 \text{ km}$ to cm by multiplying by $100,000$. Divide by 188.4

$4,007,500,000 / 188.5 = 21,259,946.95$

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