Life Skill Mathematics – Worksheet 2

Mathematics in Sports

Success rate in Netball

sucess rate = $\frac{Number of goals \ scored}{Number of \ attempts} \times 100$

Name	Goals	Attempts	Success rate
Anna	17	24	
Mary	30	35	
Tina	45	48	
Kama	18	24	

Which player has the highest success rate?

In a netball game Jana scored 7 goals from 13 shots and Nina scored 12 goals from 17 shots. Who has the better success rate? By how much?

Goal average

 $Goal average = \frac{Number of goals scored}{Number of matches}$

Name	Goals	Matches	Goal Average
Kata	1299	306	
Jasa	1256	253	
Tony	1252	268	
Ablet	1030	248	

Which player has the highest goal average?

Perimeter

A primary school has a running track. It has two straights of 50 metres. Also there are two 'bends' that are semicircles with diameter 30 metres.



Work out the distance around the running track.

Sporting Costs

1. A jet ski costs \$40 to hire for a period of 30 minutes

Calculate the cost of hiring a jet ski for

- a. 1 hour
- b. 2 hours and 15 minutes

Uniform Prices		
Shorts	\$11	
jersey	\$15	
boot	\$70	
socks	\$15	
Shim pad	\$12	

- a. In order to join a soccer club each player needs uniform consisting of shorts, soccer jersey, boot, socks, Shim pad. Calculate the cost of uniform per player.
- b. The soccer team consists of 18 players who have managed to raise a total of \$500. If the team decides to use this money to reduce the cost of purchasing the uniforms, what will be the cost of purchasing the uniforms per player?
- c. Express the savings as percentage of the original cost
- 3. Gym charges are shown below:

6 months membership costs \$175 12 months membership costs \$315 Monthly \$30

- a. Is it cheaper to join Gym every 6 months or on a 12 monthly basis?
- b. The Gym offers 20% off its 12 month membership. Calculate the special price

Speed

- 1. A swimmer completed 250m in 5 minutes and 40 seconds. Calculate his average speed.
- 2. In a 100m sprint, the following competitors had their times recorded as indicated

Name	Time(s)
Kata	13.56
Jasa	15.82

Tony	15.09
Ablet	11.63

a. Arrange the competitors in order from first to fourth.

- b. Calculte Kata's speed in m/s.
- 3. Rajen needs to run 1000m in 2min 15s.
 - a. If he runs the first 400m in 50s, what time will he have to run in the last 600m?
 - b. Calculate the speed at which he should run in the last 600m.