

1. Sarah and Eva were swimming.

a. Use the ratio tables below to determine who the faster swimmer is.

Sarah

→

Time (min)	1	3	5	12	17
Distance (meters)		75			

Eva

→

Time (min)	1	2	7	10	20
Distance (meters)		52			

$$\frac{2}{52} \div \frac{2}{2} =$$

$$\frac{1}{26}$$

b. Explain the method that you used to determine your answer.

I made my ratios into ratio values and compared them with a common ratio number of 1 for the time. I saw Eva swam further than Sarah did at the same time amount.

2. A 120 lb. person would weigh about 20 lb. on the earth's moon. A 150 lb. person would weigh 25 lb. on Io, a moon of Jupiter. Use ratio tables to determine which moon would make a person weigh the most.

E	120	240	360	480
M	20	40	60	80

E	150	300	450
I	25	50	75

# 13 Mathematics Vision Project Answers

**James H. Earle**

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### **Intelligent Autonomous Systems 13** Emanuele Menegatti,Nathan Michael,Karsten Berns,Hiroaki

Yamaguchi,2015-09-03 This book describes the latest research accomplishments innovations and visions in the field of robotics as presented at the 13th International Conference on Intelligent Autonomous Systems IAS held in Padua in July 2014 by leading researchers engineers and practitioners from across the world The contents amply confirm that robots machines and systems are rapidly achieving intelligence and autonomy mastering more and more capabilities such as mobility and manipulation sensing and perception reasoning and decision making A wide range of research results and applications are covered and particular attention is paid to the emerging role of autonomous robots and intelligent systems in industrial production which reflects their maturity and robustness The contributions have been selected through a rigorous peer review process and contain many exciting and visionary ideas that will further galvanize the research community spurring novel research directions The series of biennial IAS conferences commenced in 1986 and represents a premiere event in robotics

### **Invited Lectures from the 13th International Congress on Mathematical Education** Gabriele Kaiser,Helen

Forgasz,Mellony Graven,Alain Kuzniak,Elaine Simmt,Binyan Xu,2018-02-05 The book presents the Invited Lectures given at 13th International Congress on Mathematical Education ICME 13 ICME 13 took place from 24th 31st July 2016 at the University of Hamburg in Hamburg Germany The congress was hosted by the Society of Didactics of Mathematics Gesellschaft f r Didaktik der Mathematik GDM and took place under the auspices of the International Commission on Mathematical Instruction ICMI ICME 13 the biggest ICME so far brought together about 3500 mathematics educators from 105 countries additionally 250 teachers from German speaking countries met for specific activities The scholars came together to share their work on the improvement of mathematics education at all educational levels The papers present the work of prominent mathematics educators from all over the globe and give insight into the current discussion in mathematics education The Invited Lectures cover a wide spectrum of topics themes and issues and aim to give direction to future research towards educational improvement in the teaching and learning of mathematics education This book is of particular interest to researchers teachers and curriculum developers in mathematics education [Catalog of Copyright Entries. Third Series](#) Library of Congress. Copyright Office,1951 Includes Part 1A Books and Part 1B Pamphlets Serials and Contributions to Periodicals [IMACS '91, 13th World Congress on Computation and Applied Mathematics](#) Robert Vichnevetsky,1991

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