

Name:

Problem Sum Worksheet

Topic : Percentage

Video Solution: http://www.omyclassroom.com/percentage.html

Percentage discount - Qn 1 (Difficulty: Medium)



Date:

Mr Lau bought a tennis racket and a bag at discounted prices. He spent a total of \$168.75 on the two items. The ratio of the amount Mr Lau paid for the tennis racket to the amount he paid for the bag was 2 : 1.

- (a) Find the cost of the bag after the discount.
- (b) The total discount given for the two items was \$31.25. Mr Lau was given a 10% discount for the tennis racket. What was the percentage discount given for the bag?

Percentage discount - Qn 2 (Difficulty: Low)

Jeremy paid \$175 for a camera after a discount of 30 %. What was the price of the camera before the discount?

Percentage discount - Qn 3 (Difficulty: Low)

Jenny paid \$69 for an electric kettle after a discount of 40%. What was the price of the kettle **before** the discount?

Percentage discount - Qn 4 (Difficulty: Medium)

Mrs Wong bought a rice cooker for \$126 after a discount of 30%.

- (a) What was the price of the rice cooker before discount?
- (b) She paid \$40 for a toaster. The total discount for the rice cooker and the toaster was \$64. What was the percentage discount given for the toaster?

Percentage discount - Qn 5 (Difficulty: Medium)

Mrs Cheng bought a bag and a pair of shoes at a discount. She spent a total of \$57.60 on these two items. She spent \$9.60 more on the shoes than on the bag.

- (a) How much did she spend on the shoes?
- (b) The total discount given for the two items was \$22.40. She was given a 25% discount for the bag. What was the percentage discount given for the shoes?

Percentage change – Qn 1 (Difficulty: Medium)

In March , Siew Leng was given a monthly allowance of \$250. She spent 50% of it on food and transport and 20% of it on books and saved the rest. In April, the monthly allowance increased. Siew Leng was able to increase her spending on books by 30% and spent another 10% more on food and transport compared to the month of March. She saved the same amount of money for both months.

a) How much did Siew Leng spend on books in April?

b) By what percentage did the monthly allowance increase?

Percentage change – Qn 2 (Difficulty: High)

Lisa had a collection of stamps from Australia, France and Japan. She had 124 stamps from Australia. 30% of her stamps were from France. She had 12 fewer stamps from Japan than from France.

- (a) What was the total number of stamps in Lisa's collection?
- (b) Lisa's aunt gave her some stamps from France. Her total collection increased by 25%. What percentage of her collection was from France after that?

Percentage change – Qn 3 (Difficulty: High)

At first, Lisa had a total of 66 blue and pink balloons. 17 pink balloons burst. She then increased the number of blue balloons by 75%. After that, Lisa had a total of 79 balloons. How many pink balloons did she have at first?

Percentage of remaining (Layering method) – Qn 1 (Difficulty: Medium)

Martin withdrew 33% of his savings from the bank. He spent \$548 on a mobile phone and the remaining \$46 on some phone accessories. After receiving his salary, he deposited 25% of it into the bank. As a result, he had \$3480 in the bank. What was Martin's salary?

Percentage of remaining (Layering method) – Qn 2 (Difficulty: Medium)

During the Christmas sale, Mrs Chen bought an oven and a washing machine at a discount. She spent a total of \$1086 for these two items. She spent \$414 less on the oven than on the washing machine.

- a) How much did she spend on the washing machine?
- b) The total discount given for the two items was \$644. She was given a 40% discount for the washing machine. What was the percentage discount given for the oven?

Percentage of remaining (Layering method) – Qn 3 (Difficulty: Medium)

Ken spent 60% of his money and an additional \$8 on a book. He spent 50% of his remaining money and an additional \$15 on a game. He was left with \$25. How much money did he have at first?

Percentage of remaining (Layering method) – Qn 4 (Difficulty: Medium)

Kelly spent 20% of her money and an additional \$4 on a haricut. She spent 30% of her remaining money and an additional \$6 on a dress. She was left with \$36. How much money did she have at first?

Percentage of remaining (Layering method) – Qn 5 (Difficulty: Medium)

Mr Wong had a number of books for sale. He sold a total of 342 books on Saturday and Sunday. On Monday, he sold $\frac{1}{4}$ of the remainder. He was left with 18% of the books he had at first. How many books did he have at first?

Percentage and unit – Qn 1 (Difficulty: Hard)

At a fund-raising event, 60 % of the people were male and the rest were female.

20% of the females left the event in the afternoon. In the evening, after 33 males and

35 females left the event, 75% of the people at the event were males.

a) What percentage of the people left the event in the afternoon?

b) How many people were there at the start of the fund-raising event?

Saving and spending – Qn 1 (Difficulty Medium)

Gerald was given a fixed amount of pocket money each month. In January he spent \$50 and saved the rest. In February he spent 10% less and his savings increased by 25%. How much was Gerald's pocket money for each month?