Exercises 3

1.   A tent, which regularly sells for $ 1290 is on sale for $ 990. Find the discount rate to the nearest tenth of a percent.

2.   A briefcase is reduced by 27 % off the regular price of $ 485. Find the sale price.

3.   A machine, which regularly sells for $ 600, is on sale for $ 525.

   (a)   What is the amount of discount?

   (b)   What is the rate of discount?

4.   During a " Going-Out-of-Business" sale, a clothing store reduced all items by 60 %. What was the regular price of a pair of trousers which were on sale for $ 128.50?

5.   A radio, which regularly sells for $ 300, was reduced by 24 % during a summer sale. What was the sale price of the radio?

6.   A 35 % discount allowed on a jacket was $ 87.50. What was the price of the jacket after discount?

7.   After reducing the price of an article by two-fifths, it was sold for $ 234. What was the original price of the article?

8.   After taking off a discount of 6 %, a retailer settled an invoice by paying $ 1532.20. What was the original amount of the invoice?

9.   A computer shop reduced its selling price on a Compaq computer by 33⅓ %. The regular selling price was $ 7500. What was the reduced price?

10.   A store advertised a discount of $ 66.50 on a suitcase. The discount was 20 %.

   (a)   What was the original price of the suitcase?

   (b)   For how much was the suitcase sold?

11.   The final price of a CD player after a discount of 16⅔ % is $ 370. What was the original price?

12.   A 12.5 % discount allowed on a pair of shoes amounted to $ 40. What was the discounted price?

13.   A washer listed originally at $ 2400 was sold for $ 1850 during an inventory sale. What was the rate of discount allowed? Give your answer to the nearest percent.

14.   After a discount of 25 %, the sale price of an item is $ 766.50. What was the original price?

15.   An item is reduced from $ 800 to $ 500. What is the rate of discount?

16.   During a clearance sale a freezer was sold for $ 930. The freezer was sold at a discount of 22.5 %. What was the original price?

17.   After a discount of 16⅔ %, a digital answering machine was sold for $ 1260. What was the amount of discount given?

18.   A 35% discount on an item works out to $ 175. What is the discounted price of the item?

19.   Walmart store sells a charcoal grill for $ 195 with a discount of 15 %. The local hardware store sells the same item for $ 200, but offers a discount of $ 36. Which store has the lowest discounted price?

20.   The regular selling price of a Seiko watch at Herrera Watches is $ 650. During the shopping festival, the store offers a discount of 30 %. A competitor offers the same type of watch for $ 600. What rate of discount should the competitor offer in order to match the sale price of Herrera Watches?

21.   During inventory sale, a shop reduced the price of a microwave that sells originally for $ 1580 by 25 %.

   (a)   What is the sale price of the microwave?

   (b)   What additional rate of discount on the sale price should be offered in order to sell the item for $ 1000? Give your answer to 1 d.p.

22.   **Hi** Clothing Store offers a discount of 40 % on shirts that sell originally for $ 275 each. **Lou** Store offers a "buy one shirt deal at regular price of $ 250 and get a second one at half price". Khaled wants to buy two shirts. Where would he get a better price? Show your working.

23.   After reducing the price of a digital camera by one-third, the new selling price is $ 846. What was the original price of the camera?

24.   You want to buy a packet of washing powder and a bottle of fabric conditioner. **Hero Supermarket** sells all items at 20 % discount.

   The regular price of washing powder is $ 17.50 and the regular price of fabric conditioner is $ 11.25.

   At **Mike's,** washing powder sells for $ 14.75 and the fabric conditioner for $ 10. In which supermarket will you get these two items the cheapest?

25.   **G.S. Clothing Store** offers a "buy one shirt at regular price of $ 150 and get another shirt for free."

   Modern Fashion Clothing Store sells the same shirt at the regular price of $ 130 and offers a 40 % discount.

   You want to buy two shirts. Where would you get a better deal? Show your working.

26. **High Street Clothing** is offering a "buy one item and get two similar items for free" sale.

   Low Street Clothing is offering a flat 75 % discount on all items.

   Adam wants to buy three shirts that regularly sell for $ 98 each in both stores.

   (a) Which store is cheaper?

   (b) How much does Adam save by taking advantage of the cheaper offer?

27. During Thanksgiving sale, a local furniture store sells chairs at $ 86 less 20 %. What is the total amount Mario pays for a set of 6 chairs?

28. A wristwatch is on sale for $ 117 after a discount of 48 % off the regular price. What is the regular price?

29. Mary will get a 3 % discount on her $ 2585 bill, if she pays it early.

   (a) How much does Mary save if she pays her bill early?

   (b) How much does she pay if she takes advantage of the early payment discount?

30. The price of a computer went down from $ 5250 to $ 3790. Find the percentage discount. Give your answer to the nearest percent.

31. A stationery store advertises a 15 % discount on all items. Michelle buys 5 pens regularly priced at $ 4.50 each, 1 stapler regularly priced at $ 35, 4 rulers regularly priced at $ 5.25 each and 12 erasers regularly priced at $ 2.25 each.

   (a) How much does Michelle save?

   (b) How much does she pay in total?

32. Jason has the choice of buying a new Honda from the Manhattan dealer for $ 55 500 less $ 3250 or from the Queens dealer for $ 60 000 less 15 %. Advise Jason at which dealer to buy the Honda. Show your working.

33.   A wallet was originally priced at $ 36. It was reduced by 20 %. Find the discount and the sale price.

34.   A lamp originally sold for $ 425. It was reduced to $ 295. Find the amount of discount and the rate of discount to the nearest percent.

35.   A freezer originally priced at $ 1625 is on sale with a 25 % discount. Find the amount of discount and the sale price.