



$$\% \text{ change} = \frac{\text{change in value}}{\text{original value}} \times 100 \text{ ,}$$

1. Write 48% as fraction in simplest form [1]

2. Write $2\frac{1}{2}\%$ as decimal [1]

3. Work out 5% of \$25. [1]
0580/21/O/N/19 Q1)

4. Work out \$1.20 as a percentage of \$16 [1]
0580/21/M/J/19 Q1)

5. Write 55g as a percentage of 2.2kg. [1]
0580/22/O/N/17 Q6)

6. A concert hall has 1540 seats.
Calculate the number of people in the hall when 55% of
the seats are occupied. [1]
0580/21/M/J/11 Q1)



7. The \$99 is 60% of the cost of a holiday. Calculate the cost of the holiday. [2]

0580/42/M/J/10 Q1(b)(ii)

8. The Tiger Sky Tower in Singapore has a viewing capsule which holds 72 people.

This number is 75% of the population of Singapore when it was founded in 1819.

What was the population of Singapore in 1819? [2]

0580/22/O/N/12 Q5)

9. Dev makes 600 cakes. 18% of the 600 cakes go to a hotel and $\frac{2}{3}$ of the 600 cakes go to a supermarket. Calculate how many cakes he has left. [3]

0580/22/F/M/18 Q11)

10. Amir buys a camera for \$250 and sells it for \$200. Calculate his percentage loss.

4024/11/O/N/19 Q2(a)



11. Rowen buys a jacket for \$40 and sells it for \$45.40 .
Calculate the percentage profit.
0580/43/M/J/18 1(a)(i)

12. Increase \$22 by 15% [2]
0580/23/M/J/18 Q5)

13. Taxi fares cost 30 % more at night.
How much does a \$9 daytime journey cost at night? [2]
0580/22/M/J/12 Q13)(b)

14. Maria pays \$84 rent. The rent is increased by 5%.
Calculate Maria's new rent. [2]
0580/23/O/N/12 Q5)



15. The price of a coat is \$126. In a sale, this price is reduced by 18%.

Find the sale price of the coat.[2]

0580/22/M/J/22 Q7)

16. Maria decides to increase her homework time of 8 hours per week by 15%.

Calculate her new homework time. Give your answer in hours and minutes.

0580/23/O/N/11 Q10)

17. The price of a business ticket on an airline is \$2240.

(i) The price of a first class ticket is 70% more than a business ticket.

Calculate the price of this first class ticket. [2]

(ii) The price of a business ticket is 180% more than an economy ticket.

Calculate the price of this economy ticket. [3]

0580/42/M/J/16 Q1(c)



18. 240 is an increase of 60% on the number of women on the train the previous day.

Calculate the number of women on the train the previous day.

0580/43/M/J/12 Q1(b)(iii)

19. 92km is 15% more than the distance from Seatown to Deecity.

Calculate the distance from Seatown to Deecity. [3]

0580/43/O/N/12 Q1(a)(iv)

20. Arno buys a student ticket for \$43.68 .

This is a saving of 16% on the full price of a ticket.

Calculate the full price of a ticket

0580/42/M/J/22 Q6(c)



21. In a sale, Marianne buys a new camera for \$483. This is a reduction of 8% on the original price.
Calculate the original price of the camera.

0580/41/O/N/18 Q1)(c)

22. Amalie makes a profit of 20% when she sells a shirt for \$21.60.
Calculate how much Amalie paid for the shirt. [3]

0580/23/M/J/10 Q5)

23. Rowen sells a dress for \$42.60 after making a profit of 20% on the cost price.
Calculate the cost price. [3]

0580/43/M/J/18 Q1)(a)(ii)



24. In 2012 the cost of a ticket to an arts festival was \$30.

This was 20% more than the ticket cost in 2011.

Calculate the cost of the ticket in 2011 [3]

0580/23/O/N/13 Q6)

25. Shona buys a chair in a sale for \$435.60 .

This is a reduction of 12% on the original price.

Calculate the original price of the chair. [3]

0580/22/M/J/19 Q15)

26. Anita buys a computer for \$391 in a sale.

The sale price is 15% less than the original price.

Calculate the original price of the computer.

0580/22/M/J/14 Q11)



27. The cost of one litre of fuel in May 2015 was \$0.88 .
This was a decrease of 20% on the cost in May 2014.
Calculate the cost of one litre of fuel in May 2014 [3]
0580/23/O/N/17 Q12)

28. Indira buys a television in a sale for \$924.
This was a reduction of 12% on the original price.
Calculate the original price of the television. [3]
0580/22/F/M/17 Q10)

29. Jasjeet and her brother collect stamps.
When Jasjeet gives her brother 1% of her stamps, she
has 2475 stamps left.
Calculate how many stamps Jasjeet had originally [3]
0580/22/O/N/15 Q14)



30. Ahmed paid \$34 000 for a car.

His car decreased in value by 40% at the end of the first year.

The value at the end of the second year was 10% less than the value at the end of the first year.

Calculate the value of Ahmed's car after 2 years

0580/23/O/N/16 Q11)

Answers :

Q1) 12/25	Q11) 13.5	Q21) 525
Q2) 0.025	Q12) \$25.3	Q22) 18
Q3) \$1.25	Q13) 11.7	Q23) a)(ii) 35.5
Q4) 7.5%	Q14) 88.2	Q24) 25
Q5) 2.5%	Q15) 103.32	Q25) 495
Q6) 847	Q16) 9 h 12 min	Q26) 460
Q7) 165	Q17)(i) 3808 (ii) 800	Q27) 1.1[0]
Q8) 96	Q18)) 150	Q28) \$1050
Q9) 92	Q19) 80	Q29) 2500
Q10) 20%	Q20) 52	Q30) 18 360