Past Papers Worksheet P2 Percentages IGCSE Mathematics 0580

(discount, profit , loss, percentage increase or decrease, reverse percentages)



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

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)

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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 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)

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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)

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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)

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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)

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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)

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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)

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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)

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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

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