

Year 8 Practice Test on Percentages

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1. Convert $42\frac{0}{10}\%$ to a fraction in its simplest form.

Answer box.

2. Find 66% of 198 metres. Round off to the nearest metre.

Answer box.

3. Express 27% as a decimal.

Answer box.

4. Convert $5\frac{1}{2}\%$ to a fraction in its simplest form.

Answer box.

5. Express $\frac{3}{12}$ as a percentage.

Answer box.

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6. A basketball player has a field goal percentage of about 48% in a season. If the player took 1527 shots, how many of them were goals?

Give your answer to the nearest whole number.

Answer box.

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7. What is 23% of \$74.00?

Answer box.

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8. In a jar there are 26 chocolate biscuits, 6 Anzac biscuits, and 16 shortbread biscuits. What percentage of the biscuits in the jar are not chocolate?

Express your answer correct to 2 decimal places, if necessary.

Answer box.

9. What percentage of 76 is 19?

Express your answer correct to 2 decimal places, if necessary.

Answer box.

10. A lady has \$5280 in her account. She deposits some money which increases the money in her account by 15%. What is her new balance?

Answer box.

11. A lady has \$3000 in her account. She ~~withdraws~~ some money which ^{de}_Λcreases the money in her account by 35%. What is her new balance?

Answer box.

12. Express 343% as a fraction in its simplest form.

Answer box.

13. In a class there are 48 pupils. Of these, 36 are boys. What percentage of the class are girls?

Express your answer correct to 2 decimal places, if necessary.

Answer box.

14. Convert 90% to a fraction in its simplest form.

Answer box.

15. In a farmyard there are 23 geese, 3 sheep, 7 goats and 13 ducks. What percentage of the birds are ducks?

Express your answer correct to 2 decimal places, if necessary.

Answer box.

16. Convert $21\frac{5}{6}\%$ to a fraction in its simplest form.

Answer box.

17) The price of a television is discounted by 17%. If the original price was \$1600,

a. What was the discount?

b. What was the reduced price of the television?

18) The price of a train ticket has increased by 25% over the last 5 years. If the original price was \$2.80, find the current price of a train ticket.

19) An art dealer buys a painting for \$10,500 and sells it to a collector for \$12,300.

a. How much profit does he make?

b. Calculate the profit as a percentage of the cost price. Give your answer correct to two decimal places.

20) An second hand dealer buys a second hand iphone for \$245, but is only able to sell it for a price of \$198.

a. What was the loss that he suffered?

b. Calculate the loss as a percentage of the cost price.

21) In a month, a baby grows from a weight of 6.2 kg to a weight of 7.6 kg. What was the percentage increase in the baby's weight? Give your answer as a decimal correct to one decimal place

22) The area of a glacier in Antarctica has shrunk over the last year from an 3,440 square kilometres to 3,072 square kilometres.

a. What is the reduction in area?

b. Calculate the percentage reduction in area that the glacier has undergone. Give your answer correct to two decimal places.

23) A worker receives a pay rise of 2.4%. If his current wage is \$840 per week, how much will he receive per week after the pay rise? Give your answer to the nearest cent.

24) The price of a share in a company on Monday was \$200. On Tuesday, it went up by 18% in value.

a. Calculate the value of the share at the end of Tuesday.

On Wednesday, its value went down by 18%.

b. Calculate the value of the share at the end of Wednesday. Give your answer to the nearest cent.

c. Explain why the price on Wednesday is not equal to the price on Tuesday.

25) As time goes on, the value of machinery/cars/motor cycles depreciates (reduces). A motor cycle originally bought for \$15,600 depreciates in value by 10% over the first year of use.

a. What is its value at the end of the first year?

b. Over the second year, it depreciates in value by 14%? What is its value at the end of the second year? Give your answer to the nearest dollar.