

- Question 1: Work out the following
- (a) 10% of 70m (b) 25% of 16 seconds
- (e) 75% of 40ml (f) 1% of £300
- (i) 75% of 24p (j) 25% of £18
- (m) 1% of 60m (n) 75% of 8 miles
- Question 2: Work out the following
- (a) 20% of 30km (b) 5% of £60
- (e) 3% of \$9000 (f) 40% of 75 seconds
- (i) 60% of 30km (j) 30% of £40
- (m) 11% of 420m (n) 26% of 4000m
- Question 3: Work out the following
- (a) 35% of £800 (b) 6% of 160g
- (e) 61% of 1400 (f) 7% of 640GB
- (i) 90% of 1250ml (j) 76% of £80,000
- (m) 6% of £20 (n) 11% of 6m
- Question 4: Calculate the following
- (a) 30% of 245m (b) 5% of 84g
- (e) 15% of 688kg (f) 45% of 3mm
- (i) 98% of 6m (j) 55% of 18 points
- (m) 27% of 84g (n) 63% of 38 seconds

- (c) 10% of 400kg (d) 50% of 26g
- (g) 25% of 36 days (h) 50% of 9 days
- (k) 1% of \$6300 (l) 10% of £7
- (o) 1% of 80kg (p) 50% of 1.6km
- (c) 2% of 600m (d) 30% of 70p
- (g) 15% of 90 hours (h) 5% of 14kg
- (k) 70% of 900cm (l) 20% of 13cm
- (o) 55% of £8 (p) 15% of 340kg
- (c) 23% of 330cm (d) 52% of 910m
- (g) 45% of 350g (h) 80% of 450 people
- (k) 85% of 90 hours (l) 12% of £6
- (o) 28% of 3km (p) 71% of 4 tonnes
- (c) 30% of £254
 (d) 35% of 82 seconds
 (g) 18% of 25miles
 (h) 65% of 108ml
 (l) 20% of 108ml
- (k) 20% of 1.8kg (l) 19% of 705ml
- (o) 86% of 5km (p) 92% of 80 litres

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Percentage of an amount (non-calc) Video 234 on Corbettmaths

- Question 1: A primary school has 212 students. 50% of the students are boys. How many of the students are boys?
- Question 2: There are 800 fans at a rugby match between Armagh and Malone. 30% of the fans support Malone. How many fans support Malone?



- Question 3: Hannah is paid £280. She spends 30% on her rent, 25% on food and bills and saves the rest.
 - (a) How much does Hannah spend on rent?
 - (b) How much does Hannah spend on food and bills?
 - (c) How much does Hannah save?
- Question 4: There are 220 students in Year 7. 15% cycle to school. 60% are driven to school. The rest walk to school.
 - (a) How many students cycle to school?
 - (b) How many students are driven to school?
 - (c) How many students walk to school?
- Question 5: Fredrick is an estate agent in New York and earns 5% commission on every property sold. How much will he receive is he sells a flat for \$830,000?
- Question 6: A cake weighs 750g. 40% of the cake is sugar. Work out how many grams of sugar are in the cake.



- Question 7: There are 600 members of a running club. 45% of these members are male. Work out 45% of 600.
- Question 8: Martin gives 40% of £75 to his sister. How much money does Martin give to his sister?



Percentage of an amount (non-calc) Video 234 on Corbettmaths

- Question 9: Emma is paid £24,000 each year. She is given a pay rise of 12%. Work out 12% of £24,000.
- Question 10: Mrs Jones donates 4% of her salary each year to charity. She is paid £32,400. Work out how much money she donates to charity.
- Question 11: 13% of the people on an island are left handed. The population of the island is 0.7million. Work out how many people are left handed.
- Question 12: Frank organised a raffle. He sells 300 tickets for £5 each. The prizes cost £400. He gives 55% of the profit to Charity A and 45% of the profit to Charity B. Work out how much each charity receives.
- Question 13: Michael is going to buy a car. The car costs £2400. He pays a deposit of 20%. Michael pays the rest of the money over 20 monthly payments. Work out the cost of each monthly payment.
- Question 14: An adult ticket for a museum is £15.00 A child ticket costs 60% of the price of an adult ticket. Mrs Jenkins and her three children go to the museum. Mrs Jenkins pays with three £20 notes. How much change will she receive?



Question 15: Frances and her family go for a meal while on holiday in Florida. They are told it is normal to tip 15%.



The meal costs \$128 Frances tips \$16, is this enough?









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Question 1: Write down the multipliers that are equivalent to the following percentages

(a) 50%	(b) 80%	(c) 10%	(d) 25%
(e) 45%	(f) 95%	(g) 5%	(h) 3%
(i) 7%	(j) 36%	(k) 71%	(l) 44%
(m) 0%	(n) 175%	(0) 104%	(p) 160%
(q) 7.5%	(r) 1.2%	(s) 0.8%	(t) 0.01%

Question 2: Work out		
(a) 20% of 90cm	(b) 70% of 3km	(c) 15% of \$4500
(d) 57% of £58650	(e) 3.9% of 40cm	(f) 106% of 8km

Question 3: Write down the multipliers that are used to calculate a:

(a) 4% increase	(b) 15% increase	(c) 30% increase	(d) 62% increase
(e) 29% increase	(f) 70% increase	(g) 1% increase	(h) 100% increase
(i) 150% increase	(j) 108% increase	(k) 220% increase	(l) 584% increase
(m) 1.5% increase	(n) 2.8% increase	(o) 0.3% increase	(p) 0.09% increase

Question 4: Work out each of the following

(a) 60ml increased by 70%	(b) £940 increased by 8%	(c) 143g increased by 19%
(d) 405 increased by 8.3%	(e) 1150 increased by 131%	(f) 9kg increased by 0.05%



Question 5: Write down the multipliers that are used to calculate a:

(a) 2% decrease	(b) 8% decrease	(c) 12% decrease	(d) 15% decrease
(e) 30% decrease	(f) 60% decrease	(g) 72% decrease	(h) 23% decrease
(i) 100% decrease	(j) 1.6% decrease	(k) 2.9% decrease	(l) 11.5% decrease
(m) 0.6% decrease	(n) 0.9% decrease	(o) 0.38% decrease	(p) 0.08% decrease
Question 6: Work out each of the following			

- (a) 80ml decreased by 4% (b) £480 decreased by 13% (c) 143g decreased by 40%
- (d) 308 decreased by 1.2% (e) 2250 decreased by 0.5% (f) 9kg decreased by 6.03%

Apply

Question 1: 250 students attend a primary school. 94% of the students go on a visit to the zoo. How many students went to the zoo?



Question 2: A car salesman receives 3% commission on his total weekly sales. Last week his total sales were £28500 How much commission does he earn?



- Question 3: 9400 people attend a rugby match between Bristol and Bath. 77% of the fans are male. How many females attend the match?
- Question 4: Over the past 10 years, the population of an island has decreased by 2% The population of an island 10 years ago was 240000 What is the population of the island now?
- Question 5: Lily spends £60 a month on electricity. By changing company, Lily can save 17% How much would Lily pay each month?





Multipliers Video 239 on www.corbettmaths.com

- Question 6: David's salary used to be £19,500 before he received a 8% pay rise. Work out how much David is now paid?
- Question 7: An empty sand pit weighs 6kg. The weight of the sand pit increases to 50kg when filled with sand.

A different sand pit is 14% heavier but holds 22% less sand. Calculate the weight of this sand pit when it is full of sand.



- Question 8: A shop decreases all its prices by 10%. A week later the shop increases all prices by 10%. What is the overall change?
- Question 9: Chloe is given a 10% pay rise. The next year Chloe is given another 10% pay rise. Her manager says that Chloe's pay has increased by 20% overall. Explain why Chloe's manager is wrong.
- Question 10: Gordon is building a wardrobe. The wood costs 30% more than he had estimated. He needs 40% more than he had estimated.

How much more than his original estimate does the material for the wardrobe cost?



Percentages of an Amount (Calculator) Video 235 on www.corbettmaths.com			
Examples			
Workout) Click here	Scan h	ere
Question 1: Calcul	ate the following		
(a) 15% of 80ml	(b) 9% of 205kg	(c) 45% of £135	(d) 17% of 540km
(e) 53% of 700g	(f) 14% of 12 hours	(g) 31% of 280kg	(h) 6% of 4GB
(i) 85% of 1250ml	(j) 66% of 9.4 miles	(k) 97% of \$54	(l) 13% of 0.5 tonnes
Question 2: Calculate the following			
(a) 2.5% of 60cm	(b) 7.2% of 104ml	(c) 24.5% of 30m	(d) 47.9% of £3200
(e) 0.3% of 44km	(f) 85.2% of 6000 marks	(g) 0.25% of \$840	(h) 3.175% of 52g
Question 3: Calculate the following			
(a) 109% of 30m	(b) 124% of 38 seconds	(c) 186% of £40	(d) 196% of 20 miles
(e) 220% of 15g	(f) 140.5% of 180kg	(g) 371% of £60	(h) 1054% of 70 hours

Apply

- Question 1: In year 9, there are 150 students 16% of the students are left handed.
 - (a) Work out how many students are left handed.
 - (b) What percentage of the students are right handed?
- Question 2: At a football match, 37% of the fans are children. There are 12600 fans at the match.

Work out how many children went to the match?



Percentages of an Amount (Calculator)

Video 235 on www.corbettmaths.com

- Question 3: During the last ten years, Donald has played 1200 games of chess. Donald has drawn 6% of the games. He has lost 33% of the games. How many games of chess has Donald won?
- Question 4: Richard owns a coffee shop. In one week, 68000 drinks are sold. 9% of the drinks sold are hot chocolates. How many hot chocolates are sold?



- Question 5: Which is larger 20% of 7 or 7% of 20?
- Question 6: Maxwell is paid £460. He spends 38% on his rent, 13% on his food and 20% on bills. He saves the rest of the money. How much money does Maxwell save?
- Question 7: Hannah and Kate each have a salary of £36400. Hannah is given a pay rise of 4%. Kate is given £125 extra each month. Who is given the best pay rise?
- Question 8: There are 80 teachers in a school. The headteacher says that exactly 89% of the teachers drive to work. Explain why the headteacher is wrong.
- Question 9: Dorothy organises a charity raffle.
 She sells 800 tickets for £2 each.
 4% of the tickets win a prize that costs £20.
 65% of the profit goes to Charity A and the rest goes to Charity B.
 How much money does Dorothy raise for Charity B?
- Question 10: An adult ticket for the cinema costs £12.80 A child ticket is half the price of an adult ticket. Mr and Mrs Henderson and their six children go to see a movie. Mrs Henderson has a voucher for 22% off. How much money does she save?





Answers



