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%  (o) 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?

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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?