Examples

Workout

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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%         (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.
How many students went to the zoo?
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.
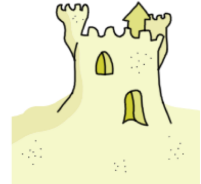By changing company, Lily can save 17%
How much would Lily pay each month?

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?


**Answers**

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