



Percentages (%) - Practice Exercise Answers

Answer 1:

Calculate the portion of the original number depending on the given percentages:

No.	Original number	Percentage	Answer
1	16	3.7%	0.592
2	125	11%	13.75
3	1098	92%	1010.16
4	265	35%	92.75
5	23	5%	1.15

Answer 2:

Change the following percentages into decimal points:

No.	Percentage	Decimal
1	37%	0.37
2	0.87%	0.0087
3	235%	2.35
4	65%	0.65
5	3%	0.03

Answer 3:

Original price= \$375

Discount rate= 15%

Discount amount:

$$\frac{15}{100} \times \frac{375}{1} = \$56.25$$

Answer 4:

Previous plan rate= \$65/month

Bill increase rate = 35%

So, the increased amount:



$$\frac{35}{100} \times \frac{65}{1} = \$22.75$$

So new bill rate= \$ (65 + 22.75) = \$87.75 /month

Answer 5:

Previous salary = \$18/hr

New salary = \$22/hr

So, salary increased by \$(22-18) = \$4/hr

To calculate the percentage increase in this instance, we need to calculate how much it would have increased if the previous salary was \$100. The salary has increase by \$4/hr from \$18.

$$\frac{4}{18} \times \frac{100}{1} = 0.2222 \times 100 = 22.22\%$$

So the salary has been increased by 22.22%.

Answer 6:

Existing price tag = \$630

Prices were decreased by 20%

So, the existing tag says the price which is the original price take away decreased amount, which means original price would be more than the existing price.

If we add the decreased percentage with 100% we get 80%

Converting 80% into decimals; 80%= 0.80

Divide the current price by the decimal to get the original price.

$$630 \div 0.8 = 787.5$$

So the changed price tag should say \$787.50.