

Question ID d1dd92d8

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Problem-Solving and Data Analysis	Percentages	Hard

ID: d1dd92d8

The number of zebras in a population in **2018** was **1.27** times the number of zebras in this population in **2014**. If the number of zebras in this population in **2014** is $p\%$ of the number of zebras in this population in **2018**, what is the value of p , to the nearest whole number?

Question ID 11059bb6

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Problem-Solving and Data Analysis	Percentages	Hard

ID: 11059bb6

In **2008**, Zinah earned **14%** more than in **2007**, and in **2009** Zinah earned **4%** more than in **2008**. If Zinah earned ***y*** times as much in **2009** as in **2007**, what is the value of ***y***?

- A. **0.5600**
- B. **1.0056**
- C. **1.1800**
- D. **1.1856**

Question ID b22cac33

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Problem-Solving and Data Analysis	Percentages	Hard

ID: b22cac33

The positive number a is **230%** of the number b , and a is **60%** of the number c . If c is $p\%$ of b , which of the following is closest to the value of p ?

- A. 138
- B. 217
- C. 283
- D. 383

Question ID f59a7e23

Assessment	Test	Domain	Skill	Difficulty
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ID: f59a7e23

140 is $p\%$ greater than 10. What is the value of p ?

- A. 1,400
- B. 1,300
- C. 140
- D. 130

Question ID 6baeb1d2

Assessment	Test	Domain	Skill	Difficulty
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ID: 6baeb1d2

37% of the items in a box are green. Of those, **37%** are also rectangular. Of the green rectangular items, **42%** are also metal. Which of the following is closest to the percentage of the items in the box that are not rectangular green metal items?

- A. **1.16%**
- B. **57.50%**
- C. **94.25%**
- D. **98.84%**

Question ID 7ffe93b2

Assessment	Test	Domain	Skill	Difficulty
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ID: 7ffe93b2

The number a is **70%** less than the positive number b . The number c is **60%** greater than a . The number c is how many times b ?

Question ID 6e1be879

Assessment	Test	Domain	Skill	Difficulty
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ID: 6e1be879

A reseller buys certain books for a purchase price of **5.00** dollars each and then marks them each for sale at a consumer price that is **270%** of the purchase price. After **4** months, any remaining books not yet sold are marked at a discounted price that is **70%** off the consumer price. What is the discounted price of each of the remaining books, in dollars?

Question ID 6ea5114f

Assessment	Test	Domain	Skill	Difficulty
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ID: 6ea5114f

The result of increasing the quantity x by $1,800\%$ is 684 . What is the value of x ?

- A. $12,996$
- B. $12,312$
- C. 38
- D. 36

Question ID d783308c

Assessment	Test	Domain	Skill	Difficulty
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ID: d783308c

The number a is 70% less than the positive number b . The number c is 80% greater than a . The number c is how many times b ?

Question ID d02d4d17

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Problem-Solving and Data Analysis	Percentages	Hard

ID: d02d4d17

210 is $p\%$ greater than 30. What is the value of p ?

Question ID 134cf693

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Problem-Solving and Data Analysis	Percentages	Hard

ID: 134cf693

The positive number a is **2,241%** of the sum of the positive numbers b and c , and b is **83%** of c . What percent of b is a ?

- A. **23.24%**
- B. **49.41%**
- C. **2,324%**
- D. **4,941%**

Question ID f2fe78cb

Assessment	Test	Domain	Skill	Difficulty
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ID: f2fe78cb

After **20%** of the original number of marbles in a group were removed from the group, **360** marbles remained in the group. How many marbles were removed from the group?

- A. **72**
- B. **90**
- C. **450**
- D. **1,800**

Question ID 220d0de5

Assessment	Test	Domain	Skill	Difficulty
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ID: 220d0de5

The number a is 190% greater than the number b . The number b is 80% less than 24. What is the value of a ?

- A. 9.12
- B. 13.92
- C. 26.40
- D. 36.48

Question ID 991f9871

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Problem-Solving and Data Analysis	Percentages	Hard

ID: 991f9871

The number a is 60% greater than the positive number b . The number c is 45% less than a . The number c is how many times b ?

Question ID 6801d39d

Assessment	Test	Domain	Skill	Difficulty
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ID: 6801d39d

The result of increasing the quantity x by 400% is 60. What is the value of x ?

- A. 12
- B. 15
- C. 240
- D. 340

Question ID 443794ac

Assessment	Test	Domain	Skill	Difficulty
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ID: 443794ac

The expression $0.35x$ represents the result of decreasing a positive quantity x by what percent?

- A. 3.5%
- B. 35%
- C. 6.5%
- D. 65%

Question ID d2da7c69

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Problem-Solving and Data Analysis	Percentages	Hard

ID: d2da7c69

The number a is 110% greater than the number b . The number b is 90% less than 47. What is the value of a ?

Question ID 3f215d34

Assessment	Test	Domain	Skill	Difficulty
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ID: 3f215d34

The value of a collectible comic book increased by **167%** from the end of **2011** to the end of **2012** and then decreased by **16%** from the end of **2012** to the end of **2013**. What was the net percentage increase in the value of the collectible comic book from the end of **2011** to the end of **2013**?

- A. **124.28%**
- B. **140.28%**
- C. **151.00%**
- D. **209.72%**

Question ID b869812a

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Problem-Solving and Data Analysis	Percentages	Hard

ID: b869812a

The regular price of a shirt at a store is **\$11.70**. The sale price of the shirt is **80%** less than the regular price, and the sale price is **30%** greater than the store's cost for the shirt. What was the store's cost, in dollars, for the shirt? (Disregard the \$ sign when entering your answer. For example, if your answer is **\$4.97**, enter **4.97**)

Question ID 3ea17fb0

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Problem-Solving and Data Analysis	Percentages	Hard

ID: 3ea17fb0

A gift shop buys souvenirs at a wholesale price of **7.00** dollars each and resells them each at a retail price that is **290%** of the wholesale price. At the end of the season, any remaining souvenirs are marked at a discounted price that is **80%** off the retail price. What is the discounted price of each remaining souvenir, in dollars?

Question ID d184e28c

Assessment	Test	Domain	Skill	Difficulty
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ID: d184e28c

A scientist studying the life cycle of dragonflies counted the number of dragonflies in a certain habitat each day for **46** days. On February **15**, there were **99** dragonflies in the habitat. The percent increase in the number of dragonflies in the habitat from January **1** to February **15** was **12.50%**. How many dragonflies were in the habitat on January **1**?

- A. **88**
- B. **87**
- C. **12**
- D. **8**

Question ID d683c482

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Problem-Solving and Data Analysis	Percentages	Hard

ID: d683c482

The number w is **110%** greater than the number z . The number z is **55%** less than **50**. What is the value of w ?

Question ID 7dfb73de

Assessment	Test	Domain	Skill	Difficulty
SAT	Math	Problem-Solving and Data Analysis	Percentages	Hard

ID: 7dfb73de

According to a set of standards, a certain type of substance can contain a maximum of **0.001%** phosphorus by mass. If a sample of this substance has a mass of **140** grams, what is the maximum mass, in grams, of phosphorus the sample can contain to meet these standards?