Percentages: Change, Interest and Reverse

Grade 9–10 Math · Grades 9–10 · About 25 minutes · 8 questions

Name _____ Date _____ Score / 8

WHAT YOU WILL PRACTISE

- Find a percentage of an amount and express one amount as a percentage of another
- Increase and decrease an amount by a percentage
- Solve compound interest and reverse percentage problems

WORKED EXAMPLE

Decrease $60 by 15%.

1. A 15% decrease leaves 100% − 15% = 85% of the original.
2. Write 85% as a multiplier: 0.85.
3. Multiply: $60 × 0.85 = $51.

Answer: $51

Questions

Show your working in the space under each question.

1. Find 15% of 80

2. Write 18 out of 60 as a percentage

3. Increase $240 by 15%

4. Decrease 350 kg by 20%

5. A coat costs $80. In a sale the price is reduced by 35%. Work out the sale price.

6. The price of a ticket rises from $50 to $58. Work out the percentage increase.

7. $2,000 is invested at 3% per year compound interest. Work out the value of the investment after 2 years.

8. After a 20% increase, a phone costs $360. Work out the price before the increase.

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Answers: Percentages: Change, Interest and Reverse

Mark your own work, then go back to any question you got wrong before reading the tutor tip.

Q	QUESTION	ANSWER
1	Find 15% of 80	**12**
2	Write 18 out of 60 as a percentage	**30%**
3	Increase $240 by 15%	**$276**
4	Decrease 350 kg by 20%	**280 kg**
5	A coat costs $80. In a sale the price is reduced by 35%. Work out the sale price.	**$52**
6	The price of a ticket rises from $50 to $58. Work out the percentage increase.	**16%**
7	$2,000 is invested at 3% per year compound interest. Work out the value of the investment after 2 years.	**$2,121.80**
8	After a 20% increase, a phone costs $360. Work out the price before the increase.	**$300**

TUTOR TIP

For a reverse percentage, divide by the multiplier. Never take the percentage off the new price, because the percentage was of the original.

Stuck on a question? Work through it live with a tutor.

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