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Percentage increase and decrease for Grade 8

Practice worksheet - Maths · Grade 8

Name: _____ Date: _____

Show your working. Answers and explanations follow on a separate page.

Try each task before opening its answer. Give an example or reason, not only a label.

Write an answer and your reason before opening the explanation. Check the reasoning as well as the final answer.

1. Increase ₹400 by 10%.

2. Decrease ₹400 by 10%.

3. ₹60 rises to ₹75. Percentage increase?

4. ₹80 falls to ₹60. Percentage decrease?

5. A 10% discount leaves ₹450. Original?

6. A 25% rise gives ₹250. Original?

7. ₹100 rises 10%, then falls 10%. What is the final amount?

8. What multiplier gives a 7% increase?

Practice continued

9. What multiplier gives a 7% decrease?

10. What is the percentage increase when a positive value doubles?

11. 20% rises to 25%. How many percentage points?

12. For the same 20% to 25% change, percentage increase?

13. Can percentage change from 0 to 10 be calculated as 10÷0×100?

14. Why does adding 20% to a discounted price not usually undo a 20% discount?

Answers and explanations

Answer key - Maths · Grade 8

Percentage increase and decrease for Grade 8

1. ₹440.

400×1.10=440.

2. ₹360.

400×0.90=360.

3. 25%.

15÷60×100=25.

4. 25%.

20÷80×100=25.

5. ₹500.

450÷0.9=500.

6. ₹200.

250÷1.25=200.

7. ₹99.

100×1.1×0.9=99.

8. 1.07.

100%+7%=107%.

9. 0.93.

100%−7%=93%.

10. 100%.

The increase equals the original.

11. 5 points.

Subtract the two percentages.

12. 25%.

5÷20×100=25.

13. No.

Division by zero is undefined.

14. The two 20% amounts use different bases.

Undo a 0.8 multiplier by dividing by 0.8.