

Name: _____

Date: _____

Score: _____ / 17

Multi-Step Percent Problems

Percents above 100 and below 1, reverse percentages and successive changes.

Percent of $\div 100$ then $\times$	What percent $\text{part} \div \text{whole} \times 100$	Reverse $\div (100 + \text{rate})$ then $\times 100$	Successive multiply the factors
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Section A — Percent of a Number

Find each amount.

- 12.5% of 480 = _____
- 7.5% of 2 400 = _____
- 140% of 65 = _____
- 0.5% of 1 800 = _____
- 85% of 320 = _____
- 225% of 44 = _____

Section B — What Percent?

Round to one decimal.

- 63 is what % of 420? _____
- 18 is what % of 240? _____
- 84 is what % of 336? _____
- 45 is what % of 180? _____

Section C — Working Backwards

Find the original amount.

- After a 20% increase the total is \$126. Original = _____
- After a 15% increase the total is \$345. Original = _____
- After a 10% increase the total is \$88. Original = _____
- After a 40% increase the total is \$504. Original = _____

Section D — Word Problems

Show your work.

- A \$250 item is 20% off, then 13% HST. Final price?
- A population grows 10% then falls 10%. Net change?
- Which is larger: 15% of 80, or 80% of 15?

Multi-Step Percent Problems — Answer Key

For marking. Accept equivalent correct forms.

Section A — Percent of a Number

1. 60

2. 180

3. 91

4. 9

5. 272

6. 99

Section B — What Percent?

7. 15%

8. 7.5%

9. 25%

10. 25%

Section C — Working Backwards

11. \$105

12. \$300

13. \$80

14. \$360

Section D — Word Problems

15. \$226

16. a 1% decrease

17. they are equal
