

Name: _____

Date: _____

Score: _____ / 19

Ratio, Rate & Proportion

Simplifying, solving proportions, sharing in a ratio and working with scale.

Simplify divide by GCF	Proportion cross multiply	Share total ÷ sum of ratio parts	Scale factor new ÷ original
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Section A — Simplify

Lowest terms.

1. $84 : 132 =$ _____

2. $96 : 144 =$ _____

3. $75 : 125 =$ _____

4. $126 : 210 =$ _____

5. $64 : 160 =$ _____

6. $153 : 204 =$ _____

Section B — Solve the Proportion

Find the missing value.

7. $5 : 8 = 35 : \underline{\hspace{1cm}}$

8. $7 : 12 = 42 : \underline{\hspace{1cm}}$

9. $9 : 4 = 63 : \underline{\hspace{1cm}}$

10. $6 : 13 = 48 : \underline{\hspace{1cm}}$

11. $11 : 5 = 66 : \underline{\hspace{1cm}}$

12. $3 : 17 = 51 : \underline{\hspace{1cm}}$

Section C — Sharing in a Ratio

Find the larger share.

13. Share \$180 in the ratio 4 : 5. Larger share = _____

14. Share \$240 in the ratio 3 : 5. Larger share = _____

15. Share \$350 in the ratio 2 : 5. Larger share = _____

16. Share \$144 in the ratio 7 : 5. Larger share = _____

Section D — Word Problems

Show your work.

17. A scale drawing is 1 : 250. A 3 cm line represents?

18. A car goes 468 km on 36 L. Rate in km/L?

19. Two similar triangles have sides 6 and 15. Scale factor?

Ratio, Rate & Proportion — Answer Key

For marking. Accept equivalent correct forms.

Section A — Simplify

1. 7 : 11

2. 2 : 3

3. 3 : 5

4. 3 : 5

5. 2 : 5

6. 3 : 4

Section B — Solve the Proportion

7. 56

8. 72

9. 28

10. 104

11. 30

12. 289

Section C — Sharing in a Ratio

13. \$100

14. \$150

15. \$250

16. \$84

Section D — Word Problems

17. 7.5 m

18. 13 km/L

19. 2.5
