

6.1

Practice A

For use with pages 269–274

Tell whether the ratio is in simplest form. If not, write it in simplest form.
Then, write the ratio in two other ways.

1. 8 to 16

2. 5 : 6

3. $\frac{6}{9}$

4. $\frac{36}{12}$

5. 28 : 18

6. 16 to 40

7. 45 : 10

8. 63 to 4

9. $\frac{54}{24}$

Order the ratios from least to greatest.

10. 6 : 3, 13 to 4, $\frac{19}{2}$, 15 to 10, 8 : 2

11. 7 to 15, 9 : 12, $\frac{6}{18}$, 5 to 9, $\frac{4}{8}$

Find the unit rate.

12. $\frac{24 \text{ people}}{6 \text{ cars}}$

13. $\frac{\$5}{4 \text{ pounds}}$

14. $\frac{\$180}{5 \text{ people}}$

15. $\frac{595 \text{ km}}{7 \text{ h}}$

16. $\frac{297 \text{ mi}}{11 \text{ gal}}$

17. $\frac{7.5 \text{ gal}}{3 \text{ min}}$

Tell whether the ratios are equivalent.

18. $\frac{20}{8}$ and $\frac{30}{12}$

19. 9 : 6 and 28 : 14

20. 6 to 18 and 30 to 90

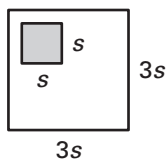
Write the equivalent rate.

21. $\frac{12 \text{ km}}{1 \text{ h}} = \frac{? \text{ m}}{1 \text{ h}}$

22. $\frac{20 \text{ cars}}{1 \text{ min}} = \frac{? \text{ cars}}{1 \text{ h}}$

23. $\frac{\$54}{1 \text{ day}} = \frac{? \text{ dollars}}{1 \text{ week}}$

24. Find the ratio of the area of the shaded square region to the area of the unshaded square region.



25. There are 60 students presenting experiments at a science fair. Each student must present their experiment to a panel of judges. The time allotted for all the presentations is 5 hours. How many minutes does each student have to present their experiments?