

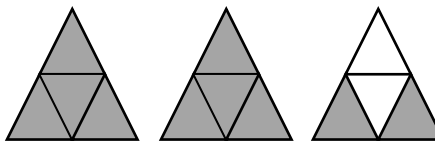
NAME _____

For #1 and 2, state the fraction represented by the shaded region in simplest form.

1.



2.



3. Show the prime factorization of 20:

4. Show the prime factorization of 100:

5. Show the prime factorization of 126:

6. Show the prime factorization of 588:

7. What is the greatest common factor (GCF) of 8, 12, and 36? _____

8. What is the greatest common factor (GCF) of 15, 40 and 50? _____

9. What is the greatest common factor (GCF) of 10, 17, and 20? _____

10. A large environmental corporation owns a 50-acre property outside the city. They have installed solar panels on 35 of the 50 acres. In simplest form, what fraction of this property is covered with solar panels? _____

11. Rana brings a box of donuts to the company holiday party. The box contains 3 plain donuts, 2 chocolate donuts, 2 jelly donuts, 3 powdered sugar donuts, and 2 cinnamon donuts. In simplest form, what fraction of the donuts in the box are not jelly donuts? _____

For #12 – 17, write each fraction in simplest form.

12. $\frac{7}{56} =$ _____

13. $\frac{15}{75} =$ _____

14. $\frac{18}{48} =$ _____

15. $\frac{8}{28} =$ _____

16. $\frac{10}{70} =$ _____

17. $\frac{24}{48} =$ _____

NAME _____

18. True or False: $\frac{3}{8}$ means 8 divided by 3. _____
19. True or False: $\frac{13}{4}$ is an example of an improper fraction. _____
20. True or False: $\frac{20}{23}$ is a fraction written in simplest form. _____
21. True or False: $\frac{1}{2}$ is equivalent to $\frac{24}{12}$. _____
22. True or False: $\frac{38}{10}$ is equivalent to $3\frac{4}{5}$. _____
23. True or False: 2 is the greatest common factor (GCF) of 12, 24, and 28. _____

For #24 – 27, write each fraction in simplest form. If the fraction is improper, write it as a mixed number.

24. $\frac{10}{7} =$ _____
25. $\frac{150}{120} =$ _____
26. $\frac{78}{195} =$ _____
27. $\frac{60}{144} =$ _____

28. Neil is baking cookies for a school fundraiser. Unfortunately, the only measuring spoon he can find in his kitchen is marked $\frac{1}{4}$ teaspoon. The recipe calls for $1\frac{1}{2}$ teaspoons of vanilla. How many times will he need to fill the measuring spoon to ensure the proper amount of vanilla? _____

29. Mark the point that represents $1\frac{3}{4}$ on the number line.



30. Mark the point that represents $3\frac{4}{16}$ on the number line.



31. Mark the point that represents $\frac{14}{12}$ on the number line.



For #32 and 33, circle the fractions that are equivalent.

32. $\frac{12}{42}$, $\frac{24}{64}$, $\frac{36}{126}$, $\frac{48}{168}$, $\frac{72}{190}$
33. $\frac{7}{12}$, $\frac{24}{14}$, $\frac{72}{42}$, $\frac{108}{63}$, $1\frac{5}{7}$

For #34 and 35, place the fractions in order from least to greatest.

34. $\frac{55}{99}$, $\frac{15}{9}$, $\frac{10}{3}$, $\frac{80}{90}$ _____
35. $\frac{301}{98}$, $\frac{128}{48}$, $\frac{124}{93}$, $\frac{120}{72}$ _____