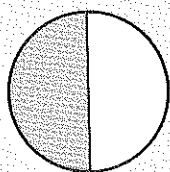
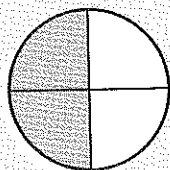


Reducing to Lowest Terms

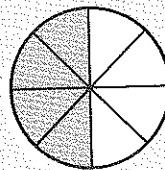
Fractions that name the same amount are **equivalent**. For example, $\frac{1}{2}$, $\frac{2}{4}$, and $\frac{4}{8}$ are equivalent fractions. They name the same shaded part in these three circles.



$$\frac{1}{2}$$



$$\frac{2}{4}$$



$$\frac{4}{8}$$

Reduce a fraction by dividing the numerator and the denominator by a number that goes into both evenly. When 1 is the only number that divides evenly into both, the fraction is in **lowest terms**.

Reduce $\frac{9}{12}$.

Divide the numerator and denominator by 3.

$$\frac{9 \div 3}{12 \div 3} = \frac{3}{4}$$

Reduce to lowest terms.

1. $\frac{2}{20}$

2. $\frac{4}{20}$

3. $\frac{12}{24}$

4. $\frac{6}{8}$

5. $\frac{10}{30}$

6. $\frac{6}{15}$

7. $\frac{8}{16}$

8. $\frac{4}{6}$

9. $\frac{9}{15}$

10. $\frac{10}{20}$

11. $\frac{30}{100}$

12. $\frac{200}{800}$

13. $\frac{24}{200}$

14. $\frac{56}{104}$

15. $\frac{72}{120}$

16. $\frac{135}{270}$

Reduce the fractions to lowest terms. Are the pairs equivalent? Write *yes* or *no*.

17. $\frac{1}{2}$ and $\frac{3}{4}$ _____

18. $\frac{2}{3}$ and $\frac{4}{6}$ _____

19. $\frac{1}{3}$ and $\frac{4}{12}$ _____

20. $\frac{2}{5}$ and $\frac{4}{5}$ _____

21. $\frac{5}{6}$ and $\frac{10}{12}$ _____

22. $\frac{1}{4}$ and $\frac{2}{4}$ _____

23. $\frac{3}{4}$ and $\frac{6}{8}$ _____

24. $\frac{3}{9}$ and $\frac{6}{18}$ _____

25. $\frac{5}{8}$ and $\frac{10}{16}$ _____

26. $\frac{15}{16}$ and $\frac{30}{48}$ _____

27. $\frac{15}{32}$ and $\frac{5}{6}$ _____

28. $\frac{96}{256}$ and $\frac{6}{16}$ _____

Directions: Choose the one best answer to each item. Circle the number of the correct answer.

29. Look at the table below. It shows the amount of rain that fell during a full week of stormy weather. On which two days did the same amount of rain fall?

DAY	RAINFALL
Monday	$\frac{1}{4}$ inch
Tuesday	$\frac{2}{10}$ inch
Wednesday	$\frac{2}{8}$ inch
Thursday	$\frac{4}{5}$ inch
Friday	$\frac{2}{4}$ inch

- (1) Monday and Friday
 (2) Tuesday and Wednesday
 (3) Wednesday and Friday
 (4) Thursday and Friday
 (5) Monday and Wednesday
30. Mr. Simmons spends about $\frac{2}{6}$ of his time traveling on business. Which fraction represents the amount of time he is traveling?
- (1) $\frac{2}{3}$
 (2) $\frac{1}{4}$
 (3) $\frac{2}{4}$
 (4) $\frac{1}{3}$
 (5) $\frac{1}{2}$
31. A retired couple spends $\frac{4}{12}$ of the year at their home in Maine. What fraction of the calendar do they spend in Maine?
- (1) $\frac{1}{12}$
 (2) $\frac{2}{4}$
 (3) $\frac{3}{12}$
 (4) $\frac{1}{4}$
 (5) $\frac{1}{3}$

32. During a rainstorm, $\frac{4}{10}$ inch of rain fell. What is this amount in lowest terms?

- (1) $\frac{4}{10}$
 (2) $\frac{2}{5}$
 (3) $\frac{2}{10}$
 (4) $\frac{4}{5}$
 (5) $\frac{1}{10}$

33. Two dimes are $\frac{20}{100}$ of a dollar. What is this fraction in lowest terms?

- (1) $\frac{20}{100}$
 (2) $\frac{2}{10}$
 (3) $\frac{1}{5}$
 (4) $\frac{2}{5}$
 (5) $\frac{1}{10}$

34. Roger works $\frac{8}{12}$ of the year in Florida. What is this fraction in lowest terms?

- (1) $\frac{12}{8}$
 (2) $\frac{2}{3}$
 (3) $\frac{8}{12}$
 (4) $\frac{2}{12}$
 (5) $\frac{8}{3}$

35. Carolyn is training for a 10K race. So far, she can run $\frac{8}{10}$ of the total course. What is this fraction in lowest terms?

- (1) $\frac{2}{5}$
 (2) $\frac{8}{10}$
 (3) $\frac{2}{10}$
 (4) $\frac{4}{5}$
 (5) $\frac{5}{8}$