

1. a) Determine whether the number is divisible by either 3 or 5 (or both), do not use long division.
 b) Explain why or why not?
 8475

2. Is the number 41 prime, composite, or neither?

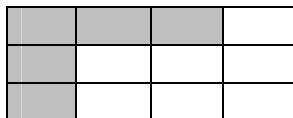
Find the prime factorization of the number:

3. 130

4. 144

5. Identify the denominator of $\frac{3}{16}$

6. What part is shaded?



Simplify, if possible:

7. $\frac{0}{24}$

8. $\frac{-3}{-3}$

9. $\frac{12}{1}$

10. Find another name for $\frac{4}{16}$, but with 24 as the denominator.

Simplify, if possible, assume all variables are nonzero:

11. $\frac{24}{56}$

12. $\frac{24t}{64t}$

ANSWERS

1. a) _____

b) _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

11. _____

12. _____

ANSWERS

13. $\frac{18}{51}$

Multiply, simplify if possible:

14. $9\left(\frac{6}{11}\right)$

15. $\frac{7}{12} \cdot \frac{16}{19}$

16. $\frac{15x}{16} \cdot \frac{8y}{29x}$

17. Mr. D has a $\frac{3}{4}$ -lb bag of peanuts, he eats half the bag. How much do the remaining peanuts weigh?

18. a) Draw and label a sketch then,
b) Find the area of a triangle with base 12 in. and height 8 in.

Find the reciprocal:

19. $-\frac{12}{x}$

20. 7

Divide, simplify if possible:

21. $\frac{5}{8} \div \frac{25}{4}$

22. $35 \div \frac{7}{3}$

23. Mr. D has 8 cups of flour. How many batches of flapjacks can he make if each batch calls for $\frac{2}{3}$ cup of flour?

Solve:

24. $\frac{5}{6}x = 25$

25. $\frac{11}{14} = -\frac{7}{9}y$

13. _____

14. _____

15. _____

16. _____

17. _____

18. a) _____

b) _____

19. _____

20. _____

21. _____

22. _____

23. _____

24. _____

25. _____