Solve for x.

16.) $4x = 32$ $x = 8$

17.) $7x = 63$ $x = 9$

18.) $5x = 35$ $x = 7$

19.) Hayes has 5 more than twice as many cookies as his friend Kellen. Write an algebraic expression showing the number of cookies Hayes has if *x* represents the number of cookies Kellen has. $2x + 5$

20.) What is the greatest common factor of 24, 60, and 84? GCF = 12

21.) What is the least common multiple of 16 and 24? LCM = 48

22.) What is the least common denominator of $\frac{1}{8}$ and $\frac{5}{6}$? 24

23.) Brooklyn has $\frac{2}{3}$ hour left to make Christmas cards for her class party. It takes her $\frac{1}{6}$ of an hour to make each card. How many cards can she make in the remaining time?

$\frac{2}{3} \div \frac{1}{6} = \frac{2}{3} \times \frac{6}{1} = \frac{12}{3} =$ 4 cards

24.) Tanner bought $12\frac{1}{2}$ pounds of ground beef for the cookout. He plans on using $\frac{1}{4}$ pound for each hamburger. How many burgers can he make?

$12\frac{1}{2} \div \frac{1}{4} = \frac{25}{2} \times \frac{4}{1} = \frac{100}{2} =$ 50

25.) One piece of cheese provides $\frac{1}{10}$ of the daily protein requirement, and one cup of milk provides $\frac{1}{5}$ of the daily protein needs. If Oscar ate 2 pieces of cheese and drank 2 cups of milk, how much of the daily protein needs would he meet?

$2 \cdot \frac{1}{10} + 2 \cdot \frac{1}{5}$

$\frac{2}{1} \cdot \frac{1}{10} = \frac{2}{10} = \frac{1}{5}$ $\frac{2}{1} \cdot \frac{1}{5} = \frac{2}{5}$

$\frac{1}{5} + \frac{2}{5} = \frac{3}{5}$

Write the integer that represents each situation.

26.) 45 degrees below zero $-45°$

27.) a deposit of $17 $17

28.) 400 feet below sea level -400 ft

State whether each inequality is true or false.

29.) $8 > 9$ false

30.) $-5 < -4$ true

31.) $0 < -\frac{1}{2}$ false

32.) $|-13| > |-14|$ false

33.) $|-7| > |-6|$ true

34.) $|-2| < 0$ false