11. The length of \( \frac{2}{3} \) of a rope is \((4u - 5)\) inches. Express the total length of the rope in terms of \( u \).

\[ \left( 6u - \frac{15}{2} \right) \text{ in.} \]

12. If 50 lb = 22.68 kg, what is \( \frac{15}{8} \) pounds in kilograms? 0.8505 kg or \( \frac{1701}{2000} \) kg.

13. The minute hand of a clock makes one complete round every 60 minutes. How many rounds does the minute hand make in \( 650x \) minutes?

\[ \frac{65}{6} \times \text{rounds or } 10.83x \text{ rounds} \]

14. Fifteen cards are added to \( n \) cards. 6 people then share the cards equally. Express the number of cards for each person in terms of \( n \).

\[ \frac{1}{6} (n + 15) \text{ cards or } \left( \frac{1}{6} n + \frac{5}{2} \right) \text{ cards} \]

15. The pump price was \( g \) dollars per gallon of gasoline yesterday. The price increases by 10 cents per gallon today. If a driver pumps 12.4 gallons of gasoline today, how much does he have to pay?

\((12.4g + 1.24)\) dollars.
<table>
<thead>
<tr>
<th>Statement</th>
<th>Expression with Error</th>
<th>Description of Error</th>
<th>Correct Expression</th>
</tr>
</thead>
<tbody>
<tr>
<td>35% of s plus 65% of t</td>
<td>$s + t$</td>
<td>Percents are not shown</td>
<td>$0.35s + 0.65t$</td>
</tr>
<tr>
<td>$\frac{1}{6} x$ subtracted from $\frac{1}{6} y$</td>
<td>$\frac{1}{6} x - \frac{1}{6} y$</td>
<td>Subtraction done in the wrong way</td>
<td>$\frac{1}{6} y - \frac{1}{6} x$</td>
</tr>
<tr>
<td>One more than half of n</td>
<td>$1 + \frac{1}{2} n$</td>
<td>Adding $n$ instead of 1 to half n</td>
<td>$\frac{1}{2} n + 1$</td>
</tr>
<tr>
<td>$\frac{2}{3} x$ divided by $\frac{1}{5}$</td>
<td>$\frac{2}{15} x$</td>
<td>Multiplying instead of dividing</td>
<td>$\frac{10}{3} x$</td>
</tr>
</tbody>
</table>
17. The ratio of red counters to blue counters is $9:11$. There are $y$ blue counters. Express the number of red counters in terms of $y$.

18. When 18 boys joined a group of $y$ students, the ratio of boys to girls in the group became $4:5$. Write an algebraic expression for the number of girls in terms of $y$.

$$\frac{5}{9}(y + 18) \text{ girls or } \left(\frac{5}{9}y + 10\right) \text{ girls}$$

17. Red counters:

<p>| | | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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</thead>
</table>

Blue counters:

\[ \frac{9}{11}y \] or \[ \frac{1}{2}y \]

\[ 9 \cdot \frac{1}{11}y = \frac{9}{11}y \]

The number of red counters is $\frac{2}{11}y$. 

\[ 9 \text{ red} \rightarrow 9 \cdot \frac{9}{11}y = \frac{9}{11}y \]

OR

\[ \frac{9}{11}y \]
19 Adrian is $x$ years old. Benny is 7 years younger than Adrian. In 5 years' time, Benny will be twice the age of Celine. How old is Celine now in terms of $x$?

\[ \begin{align*}
A &: \quad x \\
B &: \quad x - 7 \\
C &: \quad (\frac{1}{2}x - 1) - 5
\end{align*} \]

\[ \begin{align*}
(X-7)+5 &= X-2 \\
\frac{x-2}{2} &= \frac{x}{2} - \frac{2}{2} = \frac{1}{2}x - 1
\end{align*} \]

19. Now $\frac{1}{2}x - 6$

20 A group has an equal number of adults and children. When $n$ oranges are given to the group, each adult gets two oranges while each child gets one orange and there are still 5 oranges left. Write an algebraic expression for the number of oranges given to the adults.

\[ \begin{align*}
A &: \quad 2 \\
C &: \quad 1
\end{align*} \]

\[ \frac{2}{3} (n - 5) \]

\[ \left(\frac{2}{3}n - \frac{10}{3}\right) \] oranges
19 Adrian is $x$ years old. Benny is 7 years younger than Adrian. In 5 years’ time, Benny will be twice the age of Celine. How old is Celine now in terms of $x$?

\[
\frac{1}{2}x - 6 \text{ years old}
\]

20 A group has an equal number of adults and children. When $n$ oranges are given to the group, each adult gets two oranges while each child gets one orange and there are still 5 oranges left. Write an algebraic expression for the number of oranges given to the adults.

\[
\frac{2}{3}(n - 5) \text{ oranges or } \frac{2n - 10}{3} \text{ oranges}
\]
21 The list price of a camera was \( w \) dollars. Paul bought the camera for $35 less than the list price. If the sales tax was 8%, how much did Paul pay for the camera including the sales tax? \( (1.08w - 37.8) \) dollars

22 There were \( m \) visitors in an exhibition on the first day and 1,200 fewer visitors on the second day. On the third day, the number of visitors was 30% greater than the number of visitors on the second day. What was the average number of visitors over the three days? \( \frac{1}{3}m + \frac{2}{3}(m-1200) + \frac{3}{3}(1.30(m-1200)) \) visitors
23 A man drove x miles per hour for 3 hours and \((2x - 60)\) miles per hour for the next 4.75 hours.

a) Express the total distance he traveled in terms of x. \((12.5x - 285)\) mi

b) If \(x = 64\), what is the total distance he traveled? 515 mi (610 mi.)

\[
3x + 4.75(2x-60) \\
3x + 9.5x - 285 \\
12.5x - 285 \\
12.5(64) - 285 = 515 \text{ mi}
\]