Translate each phrase into an algebraic expression.

1.) two inches shorter than Kathryn's height

Let K be Kathryn's height.

$K - 2$

2.) three dollars more than the cost of the ticket

Let t be the cost of the ticket.

$3 + t$ or $t + 3$

Translate each phrase into an algebraic expression.

3.) a number less than 18   *Let q be a number*

$18 - q$

4.) the sum of a number and 11.2   *Let h be a number.*

$h + 11.2$

OR

$11.2 + h$

Evaluate each expression for the given number.

5.) d - 12.3 when d = 25

$25. - 12.3$

$$25.\overset{4}{\cancel{5}}.\overset{10}{\cancel{0}}$$
$$-\ 12.3$$
$$\boxed{12.7}$$

6.) v + 15.6 when v = 36.9

$36.9 + 15.6$

$$36.9$$
$$+15.6$$
$$\boxed{52.5}$$

Evaluate each expression for the given number.

7.) 30 - m when m = 0.85

$30. - 0.85$

$$2\,\overset{9}{\cancel{3}}\overset{9}{\cancel{0}}.\overset{9}{\cancel{0}}\overset{10}{\cancel{0}}$$
$$-\ \ \ 0.85$$
$$\boxed{29.15}$$

8.) 9.6 + t when t = 8.7

$9.6 + 8.7$

$$9.6$$
$$+8.7$$
$$\boxed{18.3}$$

Evaluate each expression for the given number.

9.) 0.5 + f + g when f = 10.74 and g = 1.9

$0.5 + 10.74 + 1.9$

$$
\begin{array}{r}
\overset{2}{0}.50 \\
10.74 \\
+\ 1.90 \\
\hline
\boxed{13.14}
\end{array}
$$

10.) j + 2.5 - k when j = 4.7 and k = 1.2

$4.7 + 2.5 - 1.2 = 7.2 - 1.2$

$$
\begin{array}{r}
\overset{1}{4}.7 \\
+2.5 \\
\hline
7.2
\end{array}
$$

$$
\begin{array}{r}
7.2 \\
-1.2 \\
\hline
\boxed{6.0}
\end{array}
$$

Evaluate each expression for the given number.

11.) p - 0.2 + q when p = 13.5 and q = 10.94

$$
\begin{array}{r}
13.5 \\
-0.2 \\
\hline
13.3
\end{array}
$$

$13.5 - 0.2 + 10.94 = 13.3 + 10.94$

$$
\begin{array}{r}
1\overset{1}{3}.30 \\
+10.94 \\
\hline
\boxed{24.24}
\end{array}
$$

12.) b + c - 132 when b = 120 and c = 95

$120 + 95 - 132$

$215 - 132$

$\boxed{83}$

A drama teacher orders 3 gallons of paint for a backdrop. Only 1.25 gallons are used to paint the backdrop for the spring play. Then a local art store donates 4 gallons. How many gallons of paint does the drama teacher have for the next play's backdrop?

$$3 - 1.25 + 4$$

$$
\begin{array}{r}
2\overset{9}{\cancel{3}}.\overset{10}{\cancel{00}} \\
-1.25 \\
\hline
1.75
\end{array}
$$

$$1.75 + 4.00$$

$$\boxed{5.75 \text{ gallons}}$$