1128 =2\% denys to go!

3 John has six shirts, eight ties and five cravats.
John is going out to dinner and he must choose a shirt and either a tie or a cravat to wear.

How many different combinations has John got to choose from?

$$
\begin{gathered}
\text { Shirt }+ \text { Tie } \\
6 \times 8
\end{gathered}
$$

$$
48 \text { combinations }
$$

$$
\begin{aligned}
& \text { shirt to choose from? Cravat } \\
& 8 \times 5
\end{aligned}
$$

$$
40 \text { combinations }
$$

Answer 98 combinations

9 Evaluate
(a) $16^{\frac{3}{4}} \quad\left(16^{1 / 4}\right)^{3}=2^{3}=8$

Answer $\qquad$

$$
\begin{aligned}
& \text { (b) } \begin{array}{l}
\frac{81^{\frac{1}{2}}-125^{\frac{1}{3}}}{100^{-0.5}} \\
=\frac{\sqrt[3]{81}-\sqrt[3]{105}}{\left(\frac{1}{10}\right)}=\frac{1}{100^{0.5}} \\
=\frac{9}{\left(\frac{1}{10}\right)} \\
=\frac{1}{100} \\
=\frac{1}{10} \\
=4
\end{array} \\
& =\frac{10}{10}
\end{aligned}
$$

