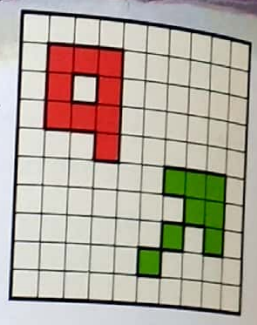
45 Waiting for the ferry

Decimals: second decimal place, addition

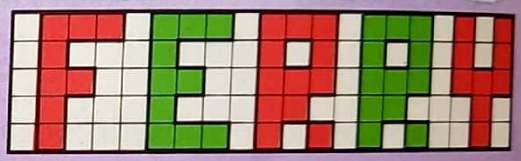


The sign showing where to queue has 100 light cells.
9 hundredths of the sign is red.
8 hundredths of the sign is green.
9 hundredths + 8 hundredths is **17 hundredths**
or **1 tenth and 7 hundredths.**

1 Write as tenths and hundredths.

(a) 9 hundredths + 6 hundredths
(b) 8 hundredths + 8 hundredths
(c) 6 hundredths + 7 hundredths
(d) 5 hundredths + 5 hundredths

The sign has 100 light cells.
29 hundredths of the sign is red.
22 hundredths of the sign is green.



Helen calculates the fraction of the sign lit like this:

Add the hundredths. 2 and 9 is 11 hundredths.
Exchange for 1 tenth and 1 hundredth.
Add the tenths. 1 and 2 is 3, and another 2 is 5 tenths.

$$\begin{array}{r} 0{\cdot}29 \\ +\ 0{\cdot}22 \\ \hline 0{\cdot}51 \\ {\scriptstyle 1\ \ \ \ } \end{array}$$

The fraction lit is **0·51**

2 (a) $\begin{array}{r} 0{\cdot}32 \\ +\ 0{\cdot}39 \\ \hline \end{array}$ (b) $\begin{array}{r} 0{\cdot}25 \\ +\ 0{\cdot}16 \\ \hline \end{array}$ (c) $\begin{array}{r} 0{\cdot}15 \\ +\ 0{\cdot}14 \\ \hline \end{array}$ (d) $\begin{array}{r} 0{\cdot}29 \\ +\ 0{\cdot}49 \\ \hline \end{array}$ (e) $\begin{array}{r} 0{\cdot}08 \\ +\ 0{\cdot}83 \\ \hline \end{array}$ (f) $\begin{array}{r} 0{\cdot}46 \\ +\ 0{\cdot}34 \\ \hline \end{array}$

(g) $\begin{array}{r} 1{\cdot}69 \\ +\ 5{\cdot}27 \\ \hline \end{array}$ (h) $\begin{array}{r} 0{\cdot}35 \\ +\ 1{\cdot}18 \\ \hline \end{array}$ (i) $\begin{array}{r} 2{\cdot}68 \\ +\ 3{\cdot}67 \\ \hline \end{array}$ (j) $\begin{array}{r} 34{\cdot}49 \\ +\ 40{\cdot}98 \\ \hline \end{array}$ (k) $\begin{array}{r} 5{\cdot}07 \\ +\ 53{\cdot}95 \\ \hline \end{array}$ (l) $\begin{array}{r} 46{\cdot}27 \\ +\ 1{\cdot}73 \\ \hline \end{array}$

3 (a) 2·74 + 2·74 (b) 2·39 + 0·65 + 9·74 (c) 2·78 + 30·4 + 3·72

4 There is a snack machine in the ticket office.
What is the cost of these sandwiches:

(a) 1 egg and 1 ham
(b) 1 ham and 1 cheese
(c) the 3 cheapest
(d) the 3 dearest?

Problem solving

5 Helen pays £2·50 for 3 different sandwiches.
What does she buy?