8 (a) Simplify $2 e-3 f+4 e-7 f$
(b) Expand and simplify $5(4 x+3)-(3 x-1)$
(c) Factorise fully $4 p+6 p q$
$9 \quad h=6 q-2 u$
(a) Work out the value of $h$ when $q=3$ and $u=-5$

$$
\begin{equation*}
h= \tag{2}
\end{equation*}
$$

$$
B=3 m+2 p
$$

(b) Work out the value of $p$ when $B=2$ and $m=5$

$$
p=
$$

(2)

10 All the teachers at a school are either left footed or right footed.
At the school
the number of left footed teachers : the number of right footed teachers $=3: 13$
A teacher at the school is picked at random.
(a) Find the probability that this teacher is left footed.

At the school, there are 18 left footed teachers.
(b) How many right footed teachers are there?

11 Benson was on holiday in Kenya for 70 days.
He was in Nairobi for $\frac{2}{7}$ of this holiday.
He was in Mombasa for $\frac{1}{5}$ of this holiday.
He was in Kisumu for $\frac{4}{9}$ of the rest of this holiday.
For what fraction of this holiday was Benson in Kisumu?

12 On the grid, draw the graph of $y=2 x-3$ for values of $x$ from -1 to 4


13 (a) Expand and simplify $(e+3)(e-5)$
(b) Solve $y=\frac{2 y+1}{5}$

Show clear algebraic working.
(c) Solve $x^{2}+3 x-18=0$

Show your working clearly.
(3)

14 The table gives information about the price of gold.

|  | 1st February 2016 | 1st March 2016 |
| :---: | :---: | :---: |
| Price of one ounce of <br> gold (dollars) | 1126.50 | 1236.50 |

(a) Work out the percentage increase in the price of gold between 1st February 2016 and 1st March 2016
Give your answer correct to 3 significant figures.

The price of one ounce of gold on 1st February 2016 was 1126.50 dollars.
The price of gold increased by $19 \%$ from 1st February 2016 to 1st July 2016
(b) Work out the price of one ounce of gold on 1st July 2016 Give your answer correct to the nearest dollar.

