## Substitution

1


Use the given facts to work out the calculations.
a) $\square+\square+\bigcirc$
b)

c)

(2)


Use the given facts to work out the calculations.
a) $\Delta-\square$
b)

c) Create your own calculation that will be equal to 22
$\square$

3 If $x=5$, write the values of the expressions in the corresponding grid. The first one has been done for you.

| $3 x$ | $x^{2}$ | $2 x-5$ |
| :---: | :---: | :---: |
| $4 x+2$ | $\frac{x}{2}$ | $2(x+1)$ |
| $7 x$ | $x+9$ | $x-7$ |


| 15 | 25 | 5 |
| :---: | :---: | :---: |
| 22 | 2.5 | 12 |
| 35 | 14 | -2 |

4. If $a=10$ and $b=6$, work out the values of the expressions.
a) $a+b=16$
d) $2 a+b=26$
b) $a-b=4$
e) $3 a-17=13$
c) $2 a=20$
f) $2(a-b)=8$
(5) If $m=\frac{4}{5}$ and $k=0.1$, work out the value of $m+2 k$

Write the expressions in order, starting with the smallest value.
$5 a$

$a^{2}$
$\square$

$$
a+5
$$


$a^{2}$
(9) $\square$
Write three different algebraic expressions that give a value of 40 e.g.
$2 a+10$ $\qquad$
$\qquad$

10 Complete the table.

| $x$ | $5 x$ | $5 x-1$ |
| :---: | :---: | :---: |
| 2 | 10 | 9 |
| 10 | 50 | 49 |
| 12 | 60 | 59 |
| 5 | 25 | 26 |
| 7 | 100 | 34 |
| 20 |  | 99 |

