1) Rhys uses cubes to write expressions for function machines. Draw the missing cubes and write the missing inputs and expressions. The first one has been completed for you.

2) Four children write expressions to describe their pocket money for the week. Are their expressions correct or incorrect? If an expression is incorrect, write the correct expression.


I cleaned my bedroom and earned $£ 4$ to add to $m y$ pocket money. Then, my mum tripled my total pocket money for getting a great school report!


1) Harry is using the following cubes to form expressions.


Using any amount of the cubes, how many different expressions can you write that use addition and/or multiplication?

1) b)

d)

$\times 5$

e) $\quad$ Input $\times 3+1$

f)

$+5 \times 2$ $\square$

2) a) This is correct.
b) Incorrect - the correct expression is $3(y+4)$.
c) Incorrect - the correct expression is $y-3+10$.
d) Incorrect - the correct expression is $y+12 \div 2$.
3) | $y$ | $y+6$ | $2 y+8$ | $4 y+2$ | $5 y+4$ | $3(y+2)$ |
| :--- | :--- | :--- | :--- | :--- | :--- |
| $2 y$ | $y+7$ | $3 y+1$ | $4 y+3$ | $5 y+5$ | $4(y+1)$ |
| $3 y$ | $y+8$ | $3 y+2$ | $4 y+4$ | $5 y+6$ | $4(y+2)$ |
| $4 y$ | $2 y+1$ | $3 y+3$ | $4 y+5$ | $5 y+7$ | $5(y+1)$ |
| $5 y$ | $2 y+2$ | $3 y+4$ | $4 y+6$ | $5 y+8$ | $2(2 y+1)$ |
| $y+1$ | $2 y+3$ | $3 y+5$ | $4 y+7$ | $2(y+1)$ | $2(2 y+2)$ |
| $y+2$ | $2 y+4$ | $3 y+6$ | $4 y+8$ | $2(y+2)$ | $2(2 y+3)$ |
| $y+3$ | $2 y+5$ | $3 y+7$ | $5 y+1$ | $2(y+3)$ | $2(2 y+4)$ |
| $y+4$ | $2 y+6$ | $3 y+8$ | $5 y+2$ | $2(y+4)$ |  |
| $y+5$ | $2 y+7$ | $4 y+1$ | $5 y+3$ | $3(y+1)$ |  |



