## Exercise 2.5

(1) Calculate each of the following:
(i) $3+3$
(ii) $3-3$
(iii) $3 \times 3$
(iv) $3 \div 3$
(v) $3^{3}$
(2) Calculate each of the following:
(i) $2^{2}+3^{2}$
(ii) $2^{3}+3^{2}$
(iii) $3^{2}+4^{2}$
(iv) $1^{2}+1^{10}$
(v) $1^{2} \times 3^{2}$
(vi) $5^{2} \times 2^{2}$
(3) Find the value of each of the following:
(i) $3+4 \times 2$
(ii) $5+6 \times 3$
(iii) $7 \times 2-4$
(iv) $2 \times(6-2)$
(4) Find the value of each of the following:
(i) $21+8 \times 2$
(ii) $8 \times 11+23$
(iii) $10 \div 5+3 \times 4$
(iv) $20 \div 10+5 \times 2$
(5) Pavel says that $2+3 \times 5$ is equal to 25 , but Marie says it is equal to 17 . Who is correct? Explain your answer.
(6) Evaluate, without using a calculator, each of the following:
(i) $45 \div(3+2)$
(ii) $5 \times 4+24 \div 8$
(iii) $5(6)+2(6)+7(6)$
(iv) $50 \div 10+2$
(v) $98 \div(3+4)^{2}$
(7) Insert operators to make each calculation below correct.

Use the operators,+- and $x$.
(i) $5 \square 4 \square 2=22$
(ii) 5
$\square$
$4 \square 2=3$
(iii) $5 \square 4 \square 2=13$
(iv) $5 \square 4 \square 2=18$

8 Insert operators to make each calculation below correct.
Use the operators $\div,+$ and - .
(i) $27 \square 9 \square 3=6$
(ii) $27 \square 9 \square 3=30$
(iii) $27 \square 9 \square 3=33$
(iv) $27 \square 9 \square 3=24$

## Revision Exercises

1. (a) Find, without using a calculator, the value of each of the following:
(i) $243+178$
(ii) $7 \times 6$
(iii) $24 \div(9-7)$
(iv) $3^{4}$
(v) $(5)(6) \div 3$
(vi) $3+2 \times 3^{2}$
(b) What number is halfway between 16 and 30 ?
2. Jakub makes a four-digit password, using the digits of his date of birth:

| 2 | 5 | 1 | 0 | 9 | 8 |
| :--- | :--- | :--- | :--- | :--- | :--- |

He doesn't use any digit more than once.
(a) Write down a password Jakub could make that is:
(i) An odd number
(ii) A multiple of 5
(b) Write down the largest number that Jakub could use as a password.

